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NUMBER 1

BULLETIN OF DUKE UNIVERSITY

The School of Medicine

1945



PUBLISHED BY THE UNIVERSITY
DURHAM, NORTH CAROLINA

ANNUAL BULLETINS

For GENERAL BULLETIN of Duke University, apply to *The Secretary*, Duke University, Durham, N. C.

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For BULLETIN OF THE COLLEGE OF ENGINEERING, apply to *The Secretary*, Duke University, Durham, N. C.

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For BULLETIN OF THE SUMMER SESSION, apply to *The Director of the Summer Session*, Duke University, Durham, N. C.

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BULLETIN
OF
DUKE UNIVERSITY
THE SCHOOL OF MEDICINE



1945

DURHAM, NORTH CAROLINA

1945

FOREWORD

This bulletin is issued for prospective medical students. Admissions into any class are made only on the understanding that every decision of the Executive Committee shall apply to all students, even though it is made subsequently to their enrollment in the School. At frequent intervals the Executive Committee reviews the records of all students, and those whose progress has been unsatisfactory may be required to leave the School. ONLY THOSE WILL BE ADVANCED WHO, IN THE OPINION OF THE EXECUTIVE COMMITTEE, GIVE PROMISE OF BEING A CREDIT TO THEMSELVES AND TO THE SCHOOL. Students who wish to study at other medical schools during one or more quarters must have their programs approved in advance by the Curriculum Committee and, on their return, must present evidence that they have completed successfully work comparable to that of the curriculum during the quarters in which they were away.

During the war all students will take the twelve quarters of the medical course consecutively, receiving their certificates at the end of three calendar years. Nine months of active duty in the Army or Navy Medical Corps or USPHS will be accepted for the second half of the required eighteen months of internship. The next first-year class will be admitted on October 1, 1945.

Under present regulations only students who are ineligible for military duty may apply for admission to medical schools during 1945. Applications will be sent to those ineligible for military duty if they will write to the Committee on Admission, Duke University School of Medicine, Durham, N. C. Students who are eligible for military duty will be selected by the Army and the Navy from the ranks and will be assigned to the various medical schools.

Under the Army and Navy Specialized Training Program, medical students who have been assigned by the Army and Navy as Privates First Class (ASTP) or Seamen (V-12S), respectively, will have their tuition, maintenance, and other expenses paid, be uniformed, and receive \$54 per month during their medical course. On graduation, they will be commissioned in the Army or Navy to serve as interns for nine months on inactive status. After the completion of this internship, some will be allowed additional training as residents, and others will go on active military duty.

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SCHOOL OF MEDICINE CALENDAR, 1945-1946

1945

Jan.	2	Tuesday—Registration of students, and Winter Quarter begins.
March	24*	Saturday—Winter Quarter ends.
April	3	Tuesday—Registration of students and Spring Quarter begins.
June	23	Saturday—Spring Quarter ends.
July	2	Monday—Registration of students, and Summer Quarter begins.
Sept.	22†	Saturday—Summer Quarter ends.
Oct.	1	Monday—Registration of students, and Autumn Quarter begins.
Nov.	22	Thursday—Thanksgiving: a holiday.
Dec.	22	Saturday—Autumn Quarter ends.

1946

Jan.	2	Wednesday—Registration of students, and Winter Quarter begins.
March	23‡	Saturday—Winter Quarter ends.
April	1	Monday—Registration of students, and Spring Quarter begins.
April	22	Easter Monday: a holiday.
June	22	Saturday—Spring Quarter ends.
July	1	Monday—Registration of students, and Summer Quarter begins.
Sept.	21**	Saturday—Summer Quarter ends.
Sept.	30	Monday—Registration of students, and Autumn Quarter begins.
Nov.	28	Thursday—Thanksgiving: a holiday.
Dec.	21	Saturday—Autumn Quarter ends.

* First-year students do not have the holiday at the end of this quarter; instead, they have a holiday from February 10-19, 1945.

† First-year students do not have the holiday at the end of this quarter.

‡ First-year students do not have the holiday at the end of this quarter; instead, they have a holiday from February 9-18, 1946.

** First-year students do not have the holiday at the end of this quarter.

FACULTY OF THE SCHOOL OF MEDICINE

*DONALD KEITH ADAMS, A.B., A.M., Ph.D., *Associate Professor of Psychology.*

A.B., Pennsylvania, 1923; A.M., Harvard, 1925; Ph.D., Yale, 1927; Research Ass't., Yale Institute of Psychol., 1925-1927; Sterling Fellow, Yale, 1927-1928; Instr. in Psychol., Wesleyan, 1928-1929; Nat'l. Research Council Fellow, Berlin, 1929-1931; Ass't. Prof. of Psychol., Duke University, 1931-1937; Guggenheim Fellow, 1937-1938; *Associate Professor of Psychology, Duke University, 1938—; 1941—*

ALEXANDRA ADLER, M.D., *Visiting Assistant Professor of Neuro-psychiatry.*

M.D., Vienna, 1926; Int. Res. and Visiting Phys. in Neuropsych., Hosp. of Univ. of Vienna, 1926-1934; Res. Fell., Ass't. and Instr. in Neuro., Harvard, 1935-1944; Res. Assoc., Junior Visiting Phys., Boston City Hosp., 1935-1944; Graduate Ass't. in Neuro., Mass. Gen. Hosp., 1939-1941; 1944—

†LEO ALEXANDER, A.B., M.D., *Associate Professor of Neuropsychiatry.*

A.B., Obergymnasium, Maturum, 1923; M.D., Vienna, 1929; Int. in Med., Allgemeines Krankenhaus, Vienna, 1927-1928; Demonstrator in Neuroanat. and Neuropath., Vienna, 1926-1929; Int. and Ass't. Res. in Neuropsych., City and Univ. Hosp., Frankfurt am Main, 1929-1933; Teaching Ass't. in Neuropsych., Univ. of Frankfurt am Main, 1931-1933; Lecturer in Neurol. and Psych., Peiping Union Med. Coll., Peiping, China, 1933; Clin. Ass't., Worcester State Hosp., Worcester, Mass., 1934; Jr. Visit. Neurol. and Neuropathologist, Boston City Hosp., 1934-1941; Research Assoc., Boston State Hosp., 1935-1941; Teaching Ass't. and Instr. in Neurol., Harvard, 1934-1941; Visit. Psychiatrist, Washingtonian Hosp., Boston, 1938-1941; *Associate Neuropsychiatrist, Duke Hospital, 1941—*

ALBERT JERVISS ALTER, A.B., M.D., *Assistant in Medicine.*

A.B., Yale, 1940; M.D., Duke, 1943; Int. and Assistant Resident in Medicine, Duke Hospital, 1944—

ROBERT LEONHARDT ALTER, M.D., *Instructor in Obstetrics and Gynecology.*

M.D., Duke, 1938; Int. on Priv. Med. Serv., and in Med., Johns Hopkins Hosp., 1937-1938; Int. in Obs., Baltimore City Hosp., 1938-1939; Int., Ass't. Res., and Resident in Obstetrics and Gynecology, Duke Hospital, 1939—

EDWIN PASCAL ALYEA, S.B., M.D., *Clinical Professor of Urology.*

S.B., Princeton, 1919; M.D., Johns Hopkins, 1923; Int. in Med., Int. and Ass't. Res. in Surg.; Ass't. Res. and Res. in Urol., Johns Hopkins Hosp., 1923-1929; Ass't. and Instr. in Surg., and Instr. in Urol., Johns Hopkins Med. Sch., 1925-1930; *Urologist, Duke Hospital, 1930—*

WILLIAM BANKS ANDERSON, A.B., M.D., *Associate Professor of Surgery in Charge of Ophthalmology.*

A.B., North Carolina, 1920; M.D., Johns Hopkins, 1924; Int., Union Mem. Hosp., Balto., 1924-1925; Int., Mass. Eye and Ear Infirmary, 1925-1927; *Ophthalmologist, Duke Hospital, 1930—*

JAY MORRIS ARENA, B.S., M.D., *Assistant Professor of Pediatrics.*

B.S., West Virginia, 1930; M.D., Duke, 1932; Int. in Ped., Johns Hopkins Hosp., 1932-1933; Ass't. Res., Res., and Assistant Pediatrician, Duke Hospital, 1933—

THEODORE W. ATWOOD, A.B., D.M.D., *Associate in Dentistry.*

A.B., Duke, 1928; D.M.D., Harvard, 1932; Int. in Dentistry, Johns Hopkins Hosp., 1932-1934; *Dentist, Duke Hospital, 1934—*

LENOX DIAL BAKER, M.D., *Associate Professor of Surgery in Charge of Orthopaedics.*

M.D., Duke, 1933; Int. in Orth. Surg. and in Gen'l. Surg.; Ass't. Res. in Orth. Surg., and Res. in Orth., Johns Hopkins Hosp., 1933-1937; Res., Children's Hosp. Sch., 1936; Ass't. and Instr., Orth. Surg., Johns Hopkins Med. Sch., 1935-1937; *Orthopaedist, Duke Hospital, 1937—*

* On leave of absence.

† On active duty; U. S. Army.

- MARIE BALDWIN, A.B., M.D., *Assistant in Neuropsychiatry*.
A.B., Erskine, 1924; M.D., South Carolina, 1929; Int., Rotat., Park View Hosp., Rocky Mount, N. C., 1929-1930; Int., Rotat., Buffalo Children's Hosp., 1930-1931; Res. in Med., Overlook Hosp., Summit, N. J.; *Assistant Resident in Neuropsychiatry, Duke Hospital, 1944*—
- LEO MAX BASHINSKY, A.B., M.D., *Assistant in Pediatrics*.
A.B. and M.D., Vanderbilt, 1939 and 1943; Int. and *Assistant Resident in Pediatrics, Duke Hospital, 1943*—
- GEORGE JAY BAYLIN, A.B., M.D., *Assistant Professor of Radiology and Instructor in Anatomy*.
A.B., Johns Hopkins, 1932; M.D., Duke, 1937; Ass't. in Anat., Duke Med. Sch., 1934-1937; Int. in Surg., Sinai Hosp., Balto., 1937-1938; Voluntary Ass't. in Path., Guy's Hosp., London, Sept., 1938-Feb., 1939; Instr. in Anat., Duke Med. Sch., Ass't. Res., and Res. in Rad., and *Assistant Radiologist, Duke Hospital, 1939*—
- DOROTHY WATERS BEARD, R.N., *Research Assistant in Experimental Surgery*.
R.N., Vanderbilt, 1929; Supervisor, Surg. Service, Vanderbilt Univ. Hosp., 1929-1931; Postgraduate Course in Surg., Charity Hosp., New Orleans, 1931-1932; 1938—
- JOSEPH W. BEARD, B.S., M.D., *Associate Professor of Surgery in Charge of Experimental Surgery*.
B.S., Chicago, 1926; M.D., Vanderbilt, 1929; Ass't. and Instr. in Surg., Vanderbilt Univ. Med. Sch., 1930-1932; Int. Ass't. Res., and Res. in Surg., Vanderbilt Univ. Hosp., 1929-1932; Ass't. in Path. and Bact., Rockefeller Inst. for Med. Research, New York City, 1932-1935; Assoc. in Path. and Bact., Rockefeller Inst. for Med. Research, Princeton, 1935-1937; *Assistant Surgeon, Duke Hospital, 1937*—
- FREDERICK BERNHEIM, A.B., Ph.D., *Associate Professor of Physiology and Pharmacology*.
A.B., Harvard, 1925; Ph.D., Cambridge, 1928; Nat'l. Research Council Fellow, Johns Hopkins Med. Sch., Dept. of Physiol. Chem., 1929-1930; 1930—
- MARY LILIAS CHRISTIAN BERNHEIM, B.A., M.A., Ph.D., *Assistant Professor of Biochemistry*.
B.A., M.A., and Ph.D., Cambridge, 1925, 1927, and 1929; Fellow, Newnham, 1927-1930; 1930—
- OTTO BILLIG, M.D., *Associate in Neuropsychiatry*.
M.D., Vienna, 1937; Ass't. in Psych., Univ. of Vienna, 1937-1938; Ass't. in Neur., Rothschild's Hosp., Vienna, 1938-1939; Assoc. in Neuropsych., Highland Hosp., 1939; 1941—
- FRANK CUTCHIN BONE, A.B., M.D., *Assistant in Medicine*.
A.B. and M.D., Duke, 1940 and 1943; Int. in Med., Strong Mem. Hosp., Rochester, N. Y., 1/1/44-9/30/44; *Assistant Resident in Medicine, Duke Hospital, 1944*—
- GEORGE ORION BOUCHER, A.B., M.D., *Assistant in Pediatrics*.
A.B., California, 1938; M.D., Duke, 1942; Int. in Ob.-Gyn. and Ped., 1942-1943; *Assistant Resident in Pediatrics, Duke Hospital, 1943*—
- ROBERT ALEXANDER BROOME, JR., M.D., *Assistant in Medicine*.
M.D., Duke, 1944; Int. in Med., Mass. Gen. Hosp., Boston, Mass., 4/1/44-9/30/44; Int. and *Assistant Resident in Medicine, Duke Hospital, 1944*—
- EUGENE CALLAWAY, JR., M.D., *Assistant in Pediatrics*.
M.D., Virginia, 1943; Int. in Psych., Highland Hosp., Asheville, N. C., 1943-1944; *Assistant Resident in Pediatrics, Duke Hospital, 1944*—
- JASPER LAMAR CALLAWAY, B.S., M.D., *Associate Professor of Medicine in Charge of Dermatology and Syphilology*.
M.D., Duke, 1932; B.S., Alabama, 1935; Ass't. Instr. in Derm. and Syphil., Univ. of Pa. Med. Sch., 1932-1933; Int. and Ass't. Res. in Med., Duke Hosp., 1933-1935; Instr. in Phys. Diag. and Path., Univ. of Alabama, Jan.-July, 1935; Instr. in Derm. and Syphil., Pa. Sch. of Med., 1935-1937; Ass't. Field Physician, U. S. Public Health Serv., Feb.-July, 1937; *Assistant Physician and Dermatologist, Duke Hospital, 1937*—
- R. CHARMAN CARROLL, A.B., M.D., *Associate in Psychiatry*.
A.B., Duke, 1935; M.D., Colorado, 1939; Int. in Ped., 1939-1940, and Res. in Psychiatry, Duke Hospital, 1940-1942; 1943—

- ROBERT SPROUL CARROLL, M.D., *Lecturer in Neuropsychiatry.*
M.D., St. Louis, 1893, and M.D., Rush, 1897; in practice, Calvert, Tex., 1893-1902; Assoc. Sup't., Marysville, Ohio, Sanatorium, 1902-1904; Pres. and Med. Dir., Highland Hosp., Inc., Asheville, N. C., 1904; 1941—
- MERL JOHN CARSON, B.A., M.D., *Instructor in Pediatrics.*
B.A., North Carolina, 1934; M.D., Vanderbilt, 1938; Int. in Ped., Rochester Gen. Hosp., Rochester, N. Y., 1938-1939; Int., Ass't. Res. and Instr. in Ped., St. Louis Children's Hosp., St. Louis, Mo., 1939-1941; 1944—
- BAYARD CARTER, A.B., B.A., M.A., M.D., *Professor of Obstetrics and Gynecology.*
A.B., Delaware, 1920; B.A. and M.A., Oxford, 1923 and 1932; M.D., Johns Hopkins, 1925; Member Obs. and Gyn. Staff of New Haven Hosp. and Yale Med. Sch., 1925-1929; Assoc. Prof. Obs. and Gyn., and Head of Dept., Univ. of Va. Med. Dept., 1929-1931; *Obstetrician and Gynecologist, Duke Hospital, 1931—*
- ELON HENRY CLARK, *Assistant Professor of Medical Art and Illustration.*
Rochester Athenaeum and Mechanics Instit., 1926-1930; Johns Hopkins Sch. of Med. Art, 1930-1932; Instr., Johns Hopkins Sch. of Med. Art, 1932-1933; *Artist, Duke Hospital, 1934—*
- NORMAN FRANCIS CONANT, B.S., A.M., Ph.D., *Associate Professor of Bacteriology and Mycology.*
B.S., Bates, 1930; A.M. and Ph.D., Harvard, 1931 and 1933; Research Fellow, Laboratoire de Parasitologie, Fac. de Médecine, Paris, 1933-1934; Research Ass't., Harvard Med. Sch. and Mass. Gen'l. Hosp., Jan. 1 to Oct. 1, 1935; 1935—
- ALBERT DERWIN COOPER, A.B., M.D., *Instructor in Medicine.*
A.B. and M.D., George Washington, 1932 and 1931; Int., Rotat., Garfield Mem. Hosp., Washington, 1931-1932; Int. in Path. and Med., Duke Hospital, 1932-1934; Priv. Prac., Internal Med. and Allergy, 1934-1944; Med. Dir., Durham County Tuberculosis Sanat.; Ass't. Health Officer, Durham City and County Health Department, Durham, N. C., 1934; 1934—
- GERALD RICE COOPER, A.B., M.A., Ph.D., *Research Associate in Experimental Surgery.*
A.B., M.A., and Ph.D., Duke, 1936, 1938, and 1939; Research Ass't. and Research Assoc., in Biochemistry, 1939-1942; 1942—
- ALFRED NIXON COSTNER, B.S., M.D., *Assistant in Otolaryngology and Ophthalmology.*
B.S., North Carolina, 1940; M.D., Washington, 1943; Int., Rotat., Norfolk Gen. Hosp., Norfolk, Va., 1/1/44-9/30/44; *Assistant Resident in Otolaryngology and Ophthalmology, Duke Hospital, 1944—*
- HOYLE WILLIAM CRAIG, *Technical Instructor in Bacteriology.*
Ass't. and Technical Instructor in Bacteriology; 1930—
- *ROBERT LAWRENCE CRAIG, B.A., M.D., *Instructor in Neurology.*
B.A., Amherst, 1931; M.D., Johns Hopkins, 1935; Int. and Ass't. Res. in Med., 1935-1937, and Ass't. Res. in Neurol., Balto. City Hosps., 1937-1938; Ass't. in Neurol., Johns Hopkins Med. Sch., 1937-1938; Res. in Neuropsychiatry and Assistant Neurologist, Duke Hospital, 1938—
- ERLE BULLA CRAVEN, JR., A.B., M.D., *Associate in Medicine.*
A.B., Duke, 1925; M.D., Johns Hopkins, 1929; Ass't. in Path., Johns Hopkins Med. Sch., 1929-1930; Res. in Path., Int., Ass't. Res. and Res. in Med., Duke Hospital, 1930-1934; 1937—
- JEAN DAVIDSON CRAVEN, A.B., M.D., *Associate in Pediatrics.*
A.B., Occidental, 1926; M.D., Johns Hopkins, 1930; Ass't. in Ped., Duke Med. Sch., 1930-1931; Res. in Ped., Union Memorial Hosp., 1931-1932; Int., Ass't. Res. and Res. in Ped., 1931-1934; Associate in Pediatrics, Duke Hospital, 1944—
- †RAYMOND S. CRISPELL, A.B., M.D., *Associate Professor of Neuropsychiatry.*
A.B. and M.D., Cornell, 1917 and 1920; Staff, Bloomingdale Hosp. and Instr. in Neuroanatomy, Cornell, 1920-1923; House Physician and Resident Neurologist, Bellevue Hosp., N. Y., 1921-1923; Fellow in Neurology, Univ. of Utrecht, Holland, 1925; Med. Dir., Saylor Sanitarium, 1926-1933; *Neuropsychiatrist, Duke Hospital, 1933—*
- * On active duty; U. S. Army.
† On active duty; U. S. Navy.

GEORGE GORDON CULBRETH, A.B., M.D., *Assistant in Pathology.*

A.B. and M.D., Duke, 1940 and 1943; Int. in Surg. and Assistant Resident in Pathology, Duke Hospital, 1944—

W. KENNETH CUYLER, B.A., M.A., Ph.D., *Research Instructor in Obstetric and Gynecological Laboratory Technics.*

B.A., Texas, 1923; M.A., Western Reserve, 1929; Ph.D., Duke, 1941; Dir. of Clin. Lab., Dept. of Endocrinol. and Metabolism, Cleveland Clinics, 1929-1938; 1938—

BINGHAM DAI, A.B., M.A., Ph.D., *Lecturer in Psychiatry.*

A.B., St. John's, 1923; M.A. and Ph.D., Chicago, 1932 and 1935; Fellow in Soc. Sc., Yale, 1932-1933; Instit. for Psychoanalysis, 1933-1935; Fellow, Assoc. in Med. Psych., 1935-1937; Ass't. Prof., Peiping Union Mem. Coll., China, 1937-1939; Lecturer in Soc., Tsin Hua, 1936-1937; Lecturer in Soc. Psych., Fisk, 1939-1942; 1943—

WILLIAM JOHN DANN, B.Sc., Ph.D., D.Sc., *Associate Professor of Physiology and Nutrition.*

B.Sc., Sheffield, 1925; Ph.D., Cambridge, 1930; D.Sc., Sheffield, 1943; Med. Research Scholar, Worshipful Co. of Grocers, 1931-1933; Beit Mem. Research Fellow, 1933-1937; 1934—

WILLIAM J. DARBY, M.D., M.S., Ph.D., *Instructor in Preventive Medicine and Public Health.*

M.D., Arkansas, 1937; M.S. and Ph.D., Michigan, 1940 and 1941; Instr. in Physiol. Chem., Univ. of Arkansas Sch. of Med., 1937-1939; Nat'l. Res. Council Fellow in Med. Sc., Coll. of Phys. and Surg., Columbia, N. Y., 1941-1942; Spec. Fellow, Internat'l. Health Div., Rockefeller Found., Vanderbilt, 1942-1943; Medical Nutritionist, North Carolina State Board of Health; 1943—

ALAN DAVIDSON, A.B., M.D., *Assistant in Otolaryngology and Ophthalmology.*

A.B., Dartmouth, 1939; M.D., Vermont, 1943; Int. in Surg. and Assistant Resident in Otolaryngology and Ophthalmology, Duke Hospital, 1944—

JOHN ALEXANDER DAVIDSON, A.B., M.D., *Instructor in Urology.*

A.B., Dartmouth, 1933; M.D., Vermont, 1942; Int., Rotat. and Ass't. Res. in Surg., Worcester City Hosp., Worcester, Mass., 1942-1944; Resident in Urology, Duke Hospital, 1944—

CLARENCE DANIEL DAVIS, S.B., M.D., *Instructor in Endocrinology.*

S.B., Mass. Inst. of Technology, 1935; M.D., Johns Hopkins Med. Sch., 1939; Int., Rotat., Robert Packer Hosp., Sayre, Pa., 1939-1940; Int., Rotat., Genesee Hosp., Rochester, N. Y., 1940-1941; Int. in Ob. & Gyn., University Hosp., Minneapolis, Minn., 1941-1942; Ass't. Res. and Res. in Endocrinology, Duke Hospital, 1942-1943; 1943—

ATALA THAYER SCUDDER DAVISON, A.B., M.D., *Assistant in Pediatrics.*

A.B., Bryn Mawr, 1915; M.D., Johns Hopkins, 1920; Ass't. in Bact., Am. Red Cross, A.E.F., 1917-1918; Assistant Pediatrician, Duke Hospital, 1942—

WILBURT CORNELL DAVISON, A.B., B.A., B.Sc., M.A., M.D., D.Sc., LL.D., *Dean of the School of Medicine and Professor of Pediatrics.*

A.B., Princeton, 1913; B.A., B.Sc., and M.A., Oxford, 1915, 1916, and 1919; M.D., Johns Hopkins, 1917; D.Sc., Wake Forest, 1932; LL.D., North Carolina, 1944; Int., Radcliffe Infirmary, 1915-1916; Ass't. Res., Assoc. Ped., Acting Pediatrician in Charge, Johns Hopkins Hosp., 1919-1927; Instr., Assoc., Assoc. Prof., Acting Head of Dept. of Ped., and Ass't. Dean, Johns Hopkins Med. Sch., 1919-1927; Pediatrician, Duke Hospital, 1927—

PERCY MILLARD DAWSON, A.B., M.D., *Visiting Professor of Physiology.*

A.B. and M.D., Johns Hopkins, 1894 and 1898; Fellow and Assoc. Prof. of Physiol., Johns Hopkins Med. Sch., 1898-1909; Divinity Stud., Harvard, and Clergyman, Ann Arbor, 1909-1912; Instr. and Assoc. Prof. of Physiol., Wisconsin, 1913-1932; Stud. Visitor U.S.S.R., 1935-1936; Visiting Professor of Physiology, Duke Hospital, 1943—

JOHN ESSARY DEES, B.S., M.D., *Assistant Professor of Urology.*

B.S. and M.D., Virginia, 1930 and 1933; Int. and Ass't. Res., Johns Hopkins Hosp., 1933-1937, and Res. in Urol., Ancker Hosp., 1937-1938, and Johns Hopkins Hosp., 1938-1939; Assistant Urologist, Duke Hospital, 1939—

SUSAN COONS DEES, A.B., M.S., M.D., *Associate in Pediatrics.*

A.B., Goucher, 1930; M.D., Johns Hopkins, 1934; M.S., Minnesota, 1938; Int., Johns Hopkins Hosp., 1934-1935, and Ass't. Res. in Med., Strong Mem. Hosp., 1935-1936; Int. in Path., Balto. City Hosps., and Ass't., Johns Hopkins Protein Clinic, 1936-1937; Research Fellow in Ped., Univ. of Minnesota Hosp., 1937-1938; Ass't., Disp. Physician, Johns Hopkins Hosp., 1938-1939; *Assistant Pediatrician, Duke Hospital, 1939—*

HERMAN DE JONG, A.B., M.D., *Associate Professor of Neuropsychiatry.*

A.B., Amsterdam, Holland, 1912; M.D., Amsterdam, 1918; Int. in Amsterdam Univ. Hosp., 1918-1923; Chef de Clinique, Amsterdam Univ. Hosp., Dept. of Neurol., 1923-1928; Dir. of Neuro-Physiological Instit. and Chief of Outdoor Dept., Neurological Clinic, Amsterdam Univ. Hosp., 1938-1940; Research Assoc., N. Y. State Psychiatric Instit. and Hosp. (Columbia Univ.), 1940-1941; *Associate Professor of Neuropsychiatry, 1943—*

MACDONALD DICK, B.A., M.A., M.D., *Assistant Professor of Physiology and Pharmacology, and Associate in Medicine.*

B.A. and M.A., Virginia, 1922 and 1923; M.D., Johns Hopkins, 1928; Int. and Ass't. Res., Vanderbilt Univ. Hosp., 1928-1930; Ass't. in Path. and Bact., Rockefeller Instit., 1930-1932; *Assistant Physician, Duke Hospital, 1932—*

CHARLES KENDALL DONEGAN, M.D., *Assistant in Medicine.*

M.D., Duke, 1943; Int. and Assistant Resident in Medicine, Duke Hospital, 1944—

ISADORE NATHAN DUBIN, B.Sc., M.D., C.M., *Associate in Pathology.*

B.Sc., M.D., C.M., McGill, 1935 and 1939; Int. in Med., Royal Victoria Hosp., Montreal, Can., 1939-1940; Ass't. Res. and Res. in Path., St Luke's Hosp., Cleveland, O., 1940-1942; Ass't. Res., *Assistant Pathology, Duke Hospital, 1942—*

KENNETH LINDSAY DUKE, A.B., Ph.D., *Associate in Anatomy.*

A.B., Brigham Young, 1936; Ph.D., Duke, 1940; Grad. Ass't. in Zool., Brigham Young Univ., 1936-1937; Grad. Ass't. in Zool., 1937-1939, and Fellow in Zool., Duke, 1939-1940; 1940—

GEORGE SHARP EADIE, M.A., M.B., Ph.D., *Professor of Physiology and Pharmacology.*

M.A. and M.B., Toronto, 1923 and 1921; Ph.D., Cambridge, 1927; Rotat. Int., Toronto Gen. Hosp., 1921-1922; Demonstrator in Biochem., Toronto, 1923-1925; Ass't. in Physiol., Dalhousie, 1927-1928; Assoc. in Physiol., Johns Hopkins Med. Sch., 1928-1930; 1930—

WATT WEEMS EAGLE, A.B., M.D., *Associate Professor of Surgery in Charge of Otolaryngology.*

A.B., North Carolina, 1918; Grad. stud., North Carolina, 1918-1919; M.D., Johns Hopkins, 1925; Int., Church Home and Infirmary, Baltimore, 1925-1926; Int., Ass't. Res. and Res. in Laryngol., Johns Hopkins Hosp., 1926-1929; Ass't. and Instr. in Laryngol., Johns Hopkins Med. Sch., 1927-1930; *Otolaryngologist, Duke Hospital, 1930—*

WILLIAM MCCOY EAGLES, A.B., M.D., *Assistant in Surgery.*

A.B. and M.D., Duke, 1940 and 1943; Int. and Assistant Resident in Surgery, Duke Hospital, 1944—

ELEANOR BEAMER EASLEY, B.A., M.A., M.D., *Associate in Obstetrics and Gynecology.*

B.A., Idaho, 1928; M.A., Iowa, 1929; M.D., Duke, 1934; Int. and Ass't. Res. in Med., and Int., Ass't. Res., and Res. in Obstetrics and Gynecology, and Assistant Obstetrician and Gynecologist, Duke Hospital, 1934—

*LINUS MATTHEW EDWARDS, JR., D.D.S., *Assistant in Dentistry.*

D.D.S., Northwestern, 1940; Int. in Dent., and Assistant Dentist, Duke Hospital, 1940—

JESSE HARRISON EPPERSON, B.S., *Instructor in Preventive Medicine and Public Health.*

B.S., Oklahoma, 1914; Health Officer, Durham City and County, 1922; 1930—

*CYRUS CONRAD ERICKSON, B.S., B.M., M.D., *Associate in Pathology.*

B.S., B.M., and M.D., Minnesota, 1932 and 1933; Int. in Surg., Minneapolis Gen'l. Hosp., May-Dec., 1932; Int., Rotat., Detroit Receiving Hosp., Jan.-Aug., 1933; Fellow in Med., Minneapolis Gen'l. Hosp., Sept., 1933-Jan., 1934; Clin. Res. Fellow in Ped., Minnesota, Jan., 1934-July, 1935; Ass't. Res., Strong Mem. Hosp., and Ass't. in Path., Rochester Med. Sch., 1935-1937; *Associate Pathologist, Duke Hospital, 1937—*

* On active duty; U. S. Army.

JOHN OTTO ERICKSON, B.S., Ph.D., *Research Fellow in Biochemistry*.
B.S., Minnesota, 1939; Ph.D., Duke, 1944; 1939—

JOHN WENDELL EVERETT, A.B., Ph.D., *Assistant Professor of Anatomy*.
A.B., Olivet, 1928; Ph.D., Yale, 1932; Instr. in Biol., Goucher, 1930-1931; 1932—

GEORGE BURTON FERGUSON, M.D., M.Sc. (Med.), *Associate in Bronchoscropy*.
M.D., Jefferson, 1932; M.Sc. (Med.), Pennsylvania, 1936; Res. Phys., Jefferson Med. Coll. Hosp., 1932-1934; *Bronchoscopist, Duke Hospital, 1937—*

WILLIAM LEROY FLEMING, B.A., M.S., M.D., *Lecturer in Preventive Medicine and Public Health*.

B.A., M.S., and M.D., Vanderbilt, 1925, 1927, and 1932; Int., Bellevue Hosp., 1933-1934; Ass't. Res. in Med., Vanderbilt Univ. Hosp., 1934-1935; Milbank Fellow and Ass't. Dispensary Phys., Johns Hopkins Hosp., 1935-1939; Research Professor of Syphilology, University of North Carolina, 1939—

WILEY DAVIS FORBUS, A.B., M.D., *Professor of Pathology*.

A.B., Washington and Lee, 1916; M.D., Johns Hopkins, 1923; Res. and Assoc. Pathologist, Johns Hopkins Hosp., 1926-1927 and 1929-1930; Guest Ass't. Pathol. Inst., Ludwig Maximilian's Univ., Munich, 1928; Pathol., Balto. City Hosps.; Consulting Pathologist, Frederick City Hosp., 1925-1930; Ass't., Instr., and Assoc. in Path., Johns Hopkins Med. Sch., 1923-1930; *Pathologist, Duke Hospital, 1930—*

*HERBERT JUNIUS FOX, M.D., *Instructor in Medicine*.

M.D., Duke, 1935; Int. and Ass't. Res. in Med., University Hosps., Cleveland, 1935-1938; Fellow, Thorndike Instit. of the Boston City Hosp., and Assoc. Instr. in Med., Harvard Med. Sch., 1938-1940; 1940—

†CLARENCE ELLSWORTH GARDNER, JR., A.B., M.D., *Associate Professor of Surgery*.

A.B., Wittenburg, 1924; M.D., Johns Hopkins, 1928; Int. and Ass't. Res., Johns Hopkins Hosp., 1928-1930; Ass't. in Surg., Johns Hopkins Med. Sch., 1929-1930; Res. in Surgery and Associate Surgeon, *Duke Hospital, 1930—*

†ROBERT L. GARRARD, A.B., M.S., B.S., M.D., *Instructor in Neuropsychiatry*.

A.B., M.S., B.S., Alabama, 1928 and 1930; M.D., Harvard, 1932; Jr. Fellow, Lahey Clinic, 1931-1932; Int., Boston Psych. Hosp., June 1-Sept. 30, 1932; Int., Boston City Sanat., Oct. 1, 1932-Jan. 31, 1933; Int., Rotat., Rhode Island Hosp., Feb. 1, 1933-Jan. 31, 1935; Res., Psych., Butler Psych. Hosp., Feb. 1-June 30, 1935; Dir., School Clinics & Pub. H., Bristol County, Mass., July 1, 1935-May 31, 1936; Clin. Dir. and Supt., R. I. Sanatorium, June 1, 1936-August 15, 1937; Res., Boston Psych. Hosp., Sept. 1, 1938-Aug. 31, 1939; Res. Neurol., N. Y. City Hosp., March 1-May 31, 1940; Staff Phys., State Hosp., Morganton, N. C., June 20, 1940-Aug. 31, 1941; Private Practice of Neuropsych., Greensboro, N. C., 1941—

JOHN CAPERS GLENN, M.D., *Assistant in Surgery*.

M.D., Duke, 1943; Int. and Assistant Resident in Surgery, *Duke Hospital, 1944—*

ERASTUS GENAIR GOODMAN, JR., M.D., *Instructor in Medicine*.

B.S., North Carolina, 1938; M.D., Duke, 1940; Int., Rotat., Doctors' Hosp., Washington, D. C., March 17-June 30, 1940; N. C. Sanatorium for Tuberculosis, July 1-Sept. 30, 1940; Int. and Ass't. Res. in Med. and Resident in Hematology and Allergy, *Duke Hospital, 1940—*

LAWRENCE ELLIOTT GORDON, JR., A.B., M.D., *Assistant in Obstetrics and Gynecology*.

A.B., Emory and Henry, 1939; M.D., Duke, 1943; Int. and Assistant Resident in Obstetrics and Gynecology, *Duke Hospital, 1944—*

WILLIAM ALEXANDER GRAHAM, A.B., M.D., *Instructor in Obstetrics and Gynecology*.

A.B., North Carolina, 1928; M.D., Pennsylvania, 1932; Int., Rotat., Union Mem. Hosp., 1932-1933; Int., Obs. and Gyn., Royal Victoria Hosp., 1933-1934; Int., Women's Hosp., N. Y., 1934-1937; Assistant Obstetrician and Gynecologist, *Duke Hospital, 1939—*

* On active duty; U. S. Navy.

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ROBERT WILLIAMS GRAVES, B.S., M.A., M.D., *Assistant Professor of Neurology.*

B.S., Davidson, 1926; M.A., Princeton, 1928; M.D., Duke, 1933; Vol. Ass't., Montreal Neurological Instit., June-Dec., 1933; Int. and Ass't. Res. in Med., New Haven Hosp., 1934-Jan., 1936; Vol. Ass't., Nat'l. Hosp., Queen Square, London, and Instituto del Cancer, Madrid, Jan.-July, 1936; Instr. in Anat., Duke Med. Sch., 1936-1937; *Assistant Physician, Duke Hospital, 1936—*

MAURICE H. GREENHILL, A.B., M.D., *Associate Professor of Neuropsychiatry, Acting Head of the Department.*

A.B., Rochester, 1931; M.D., Chicago, 1936; Int., Los Angeles Co. Gen'l. Hosp., 1936-1937; Psychiatrist, Worcester State Hosp., 1937-1939; Res. Psych., Mass. Gen'l. Hosp., 1939-1940; Rockefeller Fellow in Neurol., 1940-1941; Res. Fellow in Neurol., Harvard Med. Sch., 1940-1941; Res. Assoc., Neurological Unit, Boston City Hosp., 1940-1941; Acting Chairman, Dept. of Neuropsychiatry; Psychiatric Consultant, N. C. State Board of Charities and Public Health, Univ. of N. C.; *Associate Neuropsychiatrist, Duke Hospital, 1940—*

LUCY JANE GREGORY, A.B., M.D., *Assistant in Obstetrics and Gynecology.*

A.B., Sweet Briar, 1938; M.D., Duke, 1943; Int. in Med., Johns Hopkins Hosp., 1943-1944; *Assistant Resident in Obstetrics and Gynecology, Duke Hospital, 1944—*

KEITH SANFORD GRIMSON, B.A., B.S., M.D., *Associate in Surgery.*

B.A. and B.S., North Dakota, 1930 and 1931; M.D., Rush Med. Coll., 1933; Int., Presbyterian Hosp., Chicago, 1933-1935; Ass't. Res., Res., and Instr. in Surg., Chicago, 1935-1942; *Assistant Surgeon, Duke Hospital, 1942—*

*SNOWDEN COWMAN HALL, A.B., M.D., *Associate in Medicine.*

A.B., William and Mary, 1923; M.D., Harvard, 1930; Int., Boston City Hosp., 1930-1932; Ass't. Res. in Med., and Fellow, Priv. Diag. Clinic, Duke Hospital, 1932-1935; 1937—

EDWIN CROWELL HAMBLIN, B.S., M.D., *Associate Professor of Obstetrics and Gynecology and Clinical Professor of Endocrinology.*

B.S. and M.D., Virginia, 1921 and 1928; Ass't. and Instr. in Pharmacol., and Materia Medica, Baylor Med. Coll., 1922-1926; Int. and Res., Obs. and Gyn., Univ. of Va. Hosp., 1928-1930; Clin. Instr. in Obs. and Gyn., Univ. of Va. Med. Dept., 1930-1931; *Associate Obstetrician and Gynecologist; and Endocrinologist, Duke Hospital, 1931—*

PHILIP HANDLER, B.S., M.S., Ph.D., *Assistant Professor of Biochemistry and Nutrition.*

B.S., Coll. of City of New York, 1936; M.S. and Ph.D., Illinois, 1937 and 1939; 1939—

FREDERIC M. HANES, A.B., A.M., M.D., D.Sc., *Florence McAlister Professor of Medicine.*

A.B., North Carolina, 1903; A.M., Harvard, 1904; M.D., Johns Hopkins, 1908; D.Sc., Wake Forest, 1943; Int., Johns Hopkins Hosp., 1908-1909; Assoc. Prof. of Path., Columbia, and Pathologist, Presbyterian Hosp., N. Y., 1909-1912; Assoc., Rockefeller Instit., 1912-1913; Assoc. Prof. of Med., Washington Univ. Med. Dept., 1913-1914; Ass't. in Neurol., Queen Square Hosp., London, 1914; Prof. of Therapeutics, Med. Coll. of Va., 1914-1916; Lt. Col. Commanding Base Hosp. 65, A. E. F., 1917-1918; *Physician, Duke Hospital, 1930—*

JOHN J. HANLON, B.S., M.S., M.D., M.P.H., *Lecturer in Preventive Medicine and Public Health.*

B.S., Mass. Instit. Tech., 1933; M.S., Harvard, 1934; M.B. and M.D., Wayne, 1940 and 1941; M.P.H., Johns Hopkins, 1942; Int., Harper Hosp., 1940-1941; Ass't. Statistician and Epidem., Herman Kiefer Hosp. and Dept. H., 1934-1940; Acting Associate Professor of Public Health Administration and Statistics, North Carolina, 1942—

OSCAR CARL EDVARD HANSEN-PRÜSS, A.B., M.D., *Associate Professor of Medicine in Charge of Clinical Microscopy.*

A.B., Universidad Mayor de San Marcos, 1919; Vol. Ass't. in Path., Friedrich Wilhelm Universität, Berlin, 1920-1921; M.D., Johns Hopkins, 1924; Int., Ass't. Res. in Med., and Ass't. Phys., Johns Hopkins Hosp., 1924-1930; Ass't., Instr., and Assoc. in Medicine, Johns Hopkins Med. Sch., 1925-1930; *Associate Physician, Duke Hospital, 1930—*

* On active duty; U. S. Army.

- *JEROME SYLVAN HARRIS, A.B., M.D., *Assistant Professor of Pediatrics and Biochemistry*.
A.B., Dartmouth, 1929; M.D., Harvard, 1933; Med. House Officer, House of Good Samaritan, Boston, Oct., 1933-Jan., 1934; Int. in Med., Univ. of Chicago Clinics, 1934-1935; Int., Infants and Children's Hosp., Boston, 1935-1936; Ass't. Res. and Assistant Pediatrician, Duke Hospital, 1936—
- DERYL HART, A.B., A.M., M.D., *Professor of Surgery*.
A.B. and A.M., Emory, 1916 and 1917; M.D., Johns Hopkins, 1921; Int. in Surg., Ass't. Res. in Surg. Path., Ass't. Res. and Res. in Surg., and Assoc. Surg., Johns Hopkins Hosp., 1921-1930; Ass't. in Path., Instr., and Assoc. in Surg., Johns Hopkins Med. Sch., 1922-1930; Surgeon, Duke Hospital, 1930—
- ROBERT FRANCIS HEIMBURGER, B.S., M.D., *Assistant in Surgery*.
B.S., Drury, 1939; M.D., Johns Hopkins, 1943; Int. and Assistant Resident in Surgery, Duke Hospital, 1944—
- JAMES PAISLEY HENDRIX, B.S., M.A., M.D., *Associate in Medicine*.
B.S., Davidson, 1925; M.A., Davidson, 1926; M.D., Pennsylvania, 1930; Int., Hosp. of Univ. of Pa., 1930-1932; Res. Fellow in Pharm., Pennsylvania, 1932-1935; Instr. in Pharm., 1935-1938; Part-time Staff Phys., Med. and Gastro-Intestinal Clinics, University Hosp., 1935-1938; Assistant Physician, Duke Hospital, 1938—
- FREDERICK HARRISON HESSER, A.B., M.D., *Instructor in Neurology*.
A.B. and M.D., Johns Hopkins, 1933 and 1937; Int. in Med., Johns Hopkins Hosp., 1937-1938; Ass't. Res. in Med. and Neurol., Balto. City Hosps., 1938-1939; Fellow in Neurol., Johns Hopkins, 1939-1940; Ass't. Phys. Consolidated Gas, Electric Light and Power Co. of Balto., 1940-1941; Res. in Neurol., and Res. in Neuropsychiatry, Duke Hospital, 1941-1944; and Assistant Neurologist, Duke Hospital, 1944—
- DUNCAN CHARTERIS HETHERINGTON, A.B., M.A., Ph.D., M.D., *Associate Professor of Anatomy*.
A.B., Colorado Coll., 1919; M.A. and Ph.D., Illinois, 1920 and 1922; M.D., Johns Hopkins, 1926; Instr. in Anat., Vanderbilt Med. Sch., 1926-1930; 1930—
- GAMEEL BYRON HODGE, B.S., M.D., *Assistant in Surgery*.
B.S., Wofford, 1938; M.D., Vanderbilt, 1942; Int. and Assistant Resident in Surgery, Duke Hospital, 1942—
- WILLIAM HENRY HOLLINSHEAD, B.A., M.S., Ph.D., *Associate Professor of Anatomy*.
B.A., M.S., and Ph.D., Vanderbilt, 1926, 1927, and 1932; Instr. in Biol., Vanderbilt, 1927-1930; 1930—
- SAMUEL HERSEY HOPPER, B.S., M.S., Ph.D., *Instructor in Preventive Medicine and Public Health*.
B.S., M.S., and Ph.D., Mass. Inst. of Tech., 1933, 1934, and 1937; Res. Assoc., Mass. Inst. of Tech., 1937-1939; Ass't. Prof., Pub. H. Eng., Georgia Sch. of Tech., 1939-1942; Ass't. Prof., San. Eng., North Carolina, 1942—
- JAMES MAYHEW INGRAM, JR., M.D., *Assistant in Obstetrics and Gynecology*.
M.D., Duke, 1943; Int. in Med., Johns Hopkins Hosp., 1/1/44-9/30/44; Assistant Resident in Obstetrics and Gynecology, Duke Hospital, 1944—
- MARY FRANCES JAMES, A.B., M.T. (A.S.C.P.), *Technical Instructor in Clinical Microscopy*.
A.B., Randolph-Macon Women's Coll., 1935; Duke Hosp. Sch. of Lab. Tech., 1937; M.T. (A.S.C.P.), 1938; 1937—
- HOWARD EIKENBERRY JENSEN, A.B., A.M., B.D., Ph.D., *Professor of Sociology and Mental Hygiene*.
A.B. and A.M., Kansas, 1914 and 1915; B.D. and Ph.D., Chicago, 1917 and 1920; Fellow in Soc., Chicago, 1916-1918; Dir. Latin-American Survey, Interchurch World Movement, 1919-1920; Prof. of Soc., Butler, 1920-1928; Prof. of Soc., and Dir. of the Social Serv. Training Curriculum, Missouri, 1928-1931; Professor of Sociology, Duke University, 1931; 1941—
- CHRISTOPHER JOHNSTON, A.B., M.D., *Assistant Professor of Medicine*.
A.B. and M.D., Johns Hopkins, 1922 and 1926; Int. and Ass't. Res. in Med., Johns Hopkins Hosp., 1926-1928; Ass't. in Med., Johns Hopkins Med. Sch., 1927-1928; Ass't. Res. Phys., Hosp. of Rockefeller Instit., N. Y., 1928-1930; Assistant Physician, Duke Hospital, 1930—

* On active duty; U. S. Army.

- EDMUND PARSONS JONES, JR., B.A., M.D., *Assistant in Pediatrics*.
A.B. and M.D., Texas, 1940 and 1943; Int. in Ped., Duke, 1943-1944; Res. in Ped., Univ. of Texas Sch. of Med., 1944-1945; *Assistant Resident in Pediatrics, Duke Hospital, 1945—*
- *THOMAS T. JONES, A.B., M.D., *Associate in Medicine*.
A.B., Davidson, 1928; M.D., Johns Hopkins, 1932; Int. in Med., Balto. City Hosps., 1932-1933; Int. in Med., Mary Imogene Bassett Hosp., 1933-1934; *Assistant Physician, Duke Hospital, 1937—*
- HELEN LOUISE KAISER, R.P.T.T., *Instructor in Physical Therapy, in Charge of Division of Physical Therapy*.
R.P.T.T., Harvard, 1921; Ass't. Instr., Harvard Med. Sch. Course for Graduates, 1921-1922; Chief Phys. Therap., Detroit Orthop. Clinic, 1922-1925; Cleveland Clinic Found., 1926, and Mt. Sinai Hosp., 1927-1943; *Physical Therapist, Duke Hospital, 1943—*
- WALTER KEMPNER, M.D., *Assistant Professor of Medicine*.
M.D., Heidelberg, 1927; Int. in Med., Univ. Hosp., Heidelberg, 1926-1927; Research Assoc. and Ass't. to Prof. O. Warburg, Kaiser Wilhelm Institut f. Zellphysiologie, Berlin-Dahlem, 1927-1928 and 1933-1934; Ass't. Phys., Univ. Hosp. of Berlin, 1929-1933; *Assistant Physician, Duke Hospital, 1934—*
- SAMUEL REA KILGORE, B.S., M.D., *Instructor in Neuropsychiatry*.
B.S., Citadel, 1938; M.D., Duke, 1943; Int., Ass't. Res. and Resident in Neuropsychiatry, Duke Hospital, 1943—
- HERBERT ARTHUR KING, A.B., M.D., *Instructor in Medicine*.
A.B., Richmond, 1939; M.D., Duke, 1942; Int., Ass't. Res. and Resident in Medicine, Duke Hospital, 1942—
- BEATRICE HART KUHN, B.A., M.D., *Assistant in Dermatology and Syphilology*.
B.A., Swarthmore, 1939; M.D., Duke, 1942; Int. in Med., Duke Hosp., 1942-1943; Res. Fell., Goldwater Mem. Hosp., New York, N. Y., 1/1/44-8/30/44; *Assistant Resident in Dermatology and Syphilology, Duke Hospital, 1944—*
- HAROLD HUNTER KUHN, A.B., B.S., M.D., *Instructor in Orthopaedics*.
B.S., A.B., and M.D., Duke, 1938 and 1940; Int. and Ass't. Res. in Surg., and Res. in Orthop.; *Assistant Orthopaedist, Duke Hospital, 1940—*
- JOHN E. LARSH, JR., A.B., M.S., Sc.D., *Associate in Parasitology*.
A.B. and M.S., Illinois, 1939 and 1940; Sc.D., Johns Hopkins, 1943; Assistant Professor of Public Health, University of North Carolina, Chapel Hill, N. C., 1943—
- WILLIAM EDWARD LEEPER, JR., M.D., *Assistant in Medicine*.
M.D., Duke, 1943; Int. and Assistant Resident in Medicine, Duke Hospital, 1944—
- HANS LÖWENBACH, M.D., *Assistant Professor of Neuropsychiatry and Physiology*.
M.D., Hamburg, 1930; Int., Med. Clinic, 1929-1930, and Ass't., Physiolog. Inst., Freiburg i. B., 1930-1932; Ass't. Med. Clinic, Köln, 1932-1933; Ass't. Kaiser Wilhelm Inst. f. Hirnforschung, Physiolog. Abt., Berlin, 1933-1935; Fellow, Nansen Fund, Oslo, Norway, 1935-1936; Ship's Surg., Whaling Expeditions, 1936-1939; Res. Ass't. in Psych., Johns Hopkins Med. Sch., 1939-1940; *Assistant Neuropsychiatrist, Duke Hospital, 1940—*
- ARTHUR HILL LONDON, JR., B.S., M.D., *Associate in Pediatrics*.
B.S., North Carolina, 1925; M.D., Pennsylvania, 1927; Int., Rotat., Methodist Episcopal Hosp., Phila., 1927-1928; Ass't. Res. in Ped., Children's Hosp., Cincinnati, 1928-1929; Chief Res., Children's Hosp., Phila., and Instr. in Ped., Pennsylvania Med. Sch., 1929-1930; *Assistant Pediatrician, Duke Hospital, 1932—*
- DURWARD LEE LOVELL, M.D., *Associate in Surgery*.
M.D., Duke, 1936; Int., Ass't. Res. and Res. in Surg.; *Associate in Surgery, Duke Hospital, 1937—*
- †RICHARD SHERMAN LYMAN, B.A., M.D., *Professor of Neuropsychiatry*.
B.A., Yale, 1913; M.D., Johns Hopkins, 1921; Int., Henry Phipps Psychiatric Clinic, 1921-1922; Charleiton Fellow in Med., 1922-1923, and Assoc. in Psych., Johns Hopkins Med. Sch., 1923-1925; Assoc. Prof. of Med., Rochester Med. Sch., 1925-1929; Volun. Ass't., Laboratory of Experiment. Physiol., Leningrad, U.S.S.R., 1929-1930; Assoc. Prof. of Neuropsych., First Nat'l. Med. Sch., Shanghai, China, 1930-1931, and Peiping Union Med. Coll., 1931-1937; Lecturer in Psych., Henry Phipps Psychiatric Clinic, 1938-1940; *Neuropsychiatrist, Duke Hospital, 1940—*

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† On leave of absence.

ANGUS McBRYDE, B.S., M.D., *Assistant Professor of Pediatrics.*

B.S., Davidson, 1924; M.D., Pennsylvania, 1928; Int. and Res. in Ped., Univ. of Pa. Hosp., 1928-1930; Ass't. Res. in Ped., Johns Hopkins Hosp. and Ass't. in Ped., Johns Hopkins Med. Sch., 1930-1931; *Assistant Pediatrician, Duke Hospital, 1931—*

PAUL PRESSLY McCAIN, A.B., M.D., LL.D., *Assistant Professor of Medicine.*

A.B., Erskine, 1907; M.D., Maryland, 1911; LL.D., North Carolina; Int., Bay View Hosp., Balto., 1911-1912; Res., Gaylord Farm Sanat., Wallingford, Conn., 1912-1914; Chief of Med. Serv., 1914-1924; and Sup't., N. C. Sanatorium for Tuberculosis, 1924; 1931—

MAUDE McCracken, A.B., M.S., *Instructor in Medical Social Service.*

A.B., Duke, 1930; M.S., Simmons, 1941; Ass't. in Med. Soc. Serv. and *Instructor in Medical Social Service, Duke Hospital Social Service Department, 1941—*

FOREST DRAPER McCREA, B.S., M.S., Ph.D., *Associate Professor of Physiology and Pharmacology.*

B.S., Purdue, 1918; M.S., Illinois, 1923; Ph.D., Wisconsin, 1927; Instr. in Physiol., Illinois, 1920-1923; Instr. in Physiol., Wisconsin Med. Sch., 1923-1927; Ass't. Prof. of Physiol. and Pharmacol., Georgia Med. Sch., 1927-1929; Sr. Instr. in Physiol., Western Reserve Med. Sch., 1929-1930; 1930—

FREDERICK HAROLD McCUTCHEON, B.S., M.S., Ph.D., *Visiting Lecturer in Physiology and Pharmacology.*

B.S. and M.S., North Dakota, 1933 and 1934; Ph.D., Duke, 1936; 1944—

RUTH McLEAN, A.B., A.M., *Research Associate in Bacteriology.*

A.B., North Carolina, 1926; A.M., Duke, 1936; Ass't. Bact., N. C. Lab. of Hyg., 1929-1931; Res. Assoc., Dept. Chem., Duke, 1931-1942; *Research Associate in Bacteriology, Duke Hospital, 1943—*

*ISAAC HALL MANNING, JR., A.B., M.D., *Associate in Medicine.*

A.B., North Carolina, 1931; M.D., Harvard, 1935; Int. in Med., Boston City Hosp., 1936-1937; Ass't. Res. in Med., Ass't. in Path., and Res. in Med., Duke Hospital, 1937-1939; 1939—

JOSEPH ELDRIDGE MARKEE, B.S., Ph.D., *Professor of Anatomy.*

B.S. and Ph.D., Chicago, 1925 and 1929; Douglas Smith Fellow in Anat., 1929; Instr. in Anat., Chicago, 1929; Research Fell., Gen. Ed. Bd., Carnegie Lab. of Embry., Balto., 1935-1936; Visiting Prof. of Anat., Univ. of Tenn., 1942; Instr., Ass't. Prof., Assoc. Prof. and Prof. of Anat., Stanford, 1929-1943; 1943—

DONALD STOVER MARTIN, A.B., M.D., *Associate Professor of Bacteriology and Associate in Medicine.*

A.B., Johns Hopkins, 1925; M.D., Rochester, 1930; Int. in Ped., Strong Mem. Hosp., 1930-1931; Ass't. in Physiol. and Ass't. in Bact., Rochester Med. Sch., 1926-1927 and 1931-1932; *Associate Bacteriologist, Duke Hospital, 1932—*

ELSIE W. MARTIN, A.B., M.S., *Professor of Dietetics.*

A.B., Whitman, 1913; M.S., Teachers Coll., Columbia, 1927; Prof. of Home Economics, Puget Sound, 1915-1917; Dietitian, Univ. of Iowa Hosp., 1919-1920, and Charles T. Miller Hosp., St. Paul, Minn., 1920-1926; Admin. Dietitian, Lakeside Hosp., Cleveland, 1929-1930; *Chief Dietitian, Duke Hospital, 1930—*

PAUL ROBINSON MASSENGILL, A.B., M.D., *Instructor in Otolaryngology and Ophthalmology.*

A.B. and M.D., 1931 and 1942; Int., Ass't. Res. and *Resident in Otolaryngology and Ophthalmology, Duke Hospital, 1943—*

MAJOR GEORGE MATTHEWS, JR., *Commandant, S.C.U., 3427, A.S.T.P. Medical Unit.*

Adjutant General's Office, *Commandant, S.C.U., 3427, A.S.T.P. Medical Unit, Duke University School of Medicine, 1944—*

ELIJAH EUGENE MENEFFEE, JR., B.S., M.D., *Associate in Medicine.*

B.S. and M.D., Duke, 1936; Int., N. Y. State Sanatorium, Raybrook, July 1-Aug. 31, 1936; Int. in Med., Duke Hospital, 1936-1937; Research Fellow in Med. and Bact., Duke Med. Sch., 1937-1938; Res. in Tbc., Bellevue Hosp., New York City, Jan. 1-Dec. 31, 1939; 1940—

* On active duty; U. S. Army.

- VALY MENKIN, B.S., A.M., M.D., *Assistant Professor of Pathology*.
B.S. and A.M., Columbia, 1922 and 1923; M.D., Harvard, 1928; Teaching Fell. in Physiol., Harvard, 1927-1928; Nat'l. Research Fell. in Med., Pennsylvania, 1928-1930; Inst. and Ass't. Prof. in Path., Harvard, 1930-1944; *Assistant Professor of Pathology, Duke Hospital, 1944—*
- HAROLD CHANDLER MICKEY, B.A., *Associate in Hospital Administration*.
B.A., Colorado, 1931; Ass't. Sup't. and Superintendent, Duke Hospital, 1936—
- DANIEL FRANKLIN MILAM, A.B., M.D., M.P.H., *Associate in Preventive Medicine and Public Health*.
A.B., Vanderbilt, 1916; M.D., Chicago, 1924; M.P.H., Johns Hopkins, 1930; Field Staff, The Rockefeller Foundation, 1924; Research Prof. of Nutrition, North Carolina; 1939—
- HANS NEURATH, Ph.D., *Associate Professor of Biochemistry*.
Ph.D., Vienna, 1933; Instr. in Colloid Chem., Vienna, 1933-1934; Research Fellow, Univ. of London, 1934-1935; Research Fellow in Biochem., Minn., 1935-1936; Instr. in Chem., Cornell, 1936-1938; 1938—
- WILLIAM McNEAL NICHOLSON, A.B., M.D., *Assistant Professor of Medicine*.
A.B., Duke, 1927; M.D., Johns Hopkins, 1931; Int. in Med., Johns Hopkins Hosp., 1931-1932; Ass't. in Path. and in Med., Johns Hopkins Med. Sch., 1932-1935; *Assistant Physician, Duke Hospital, 1935—*
- RAY O. NOOJIN, A.B., M.D., *Instructor in Dermatology and Syphilology*.
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- GRIZZELLE M. NORFLEET, A.B., B.S., M.A., *Supervisor of the Spastic Clinic*.
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- GUY LEARY ODOM, M.D., *Associate in Neurosurgery*.
M.D., Tulane, 1933; Int., Rotat., East Louisiana State Hosp., 1934-1937; Res. Fellow. Path. Fellow, Int., and Res. in Neuro. and Neurosurg., Montreal Neurol. Instit., 1937-1942; Clin. Instr. in Neurosurg., L. S. U. Med. Sch., 1942-1943; *Associate Neurosurgeon, Duke Hospital, 1943—*
- KEITH MILLNER OLIVER, B.S., M.D., *Assistant in Pediatrics*.
B.S., Virginia Polytechnic Instit., 1939; M.D., Duke, 1943; Int. in Ob.-Gyn. and Ped. and *Assistant Resident in Pediatrics, Duke Hospital, 1944—*
- EDWARD STEWART ORGAIN, M.D., *Assistant Professor of Medicine*.
M.D., Virginia, 1930; Int., Ass't. Res. and Res. in Med., Univ. Hosp., Cleveland, 1930-1933; Res. Fellow in Med., assigned to Cardiology, Mass. Gen'l. Hosp., 1933-1934; *Assistant Physician, Duke Hospital, 1934—*
- JOHN FREDERICK OTT, M.D., *Assistant in Neuropsychiatry*.
M.D., Duke, 1943; Int., Rotat., Deaconess Hosp., April 1-Aug. 30, 1943; Int. in Ped., Duke Hosp., Sept. 1-Dec. 31, 1943; *Assistant Resident in Neuropsychiatry, Duke Hospital, 1944—*
- JOHN FLETCHER OWEN, B.S., M.D., *Lecturer in Neuropsychiatry*.
B.S., Wake Forest, 1918; M.D., Jefferson, 1920; Int., Rotat., Bryn Mawr Gen. Hosp., 1920-1921; Int. in Neurol. and Psych., U.S.P.H.S. Hosp. No. 49, Phila., Pa., U.S.P.H.S. Hosp. No. 37, Waukesha, Wis., Cooke County Hosp. and Chicago State Hosp., Chicago, Ill., 1921-1922; Jr. Phys., Federal Hosp., Perry Point, Md., 1922-1923; Jr. Phys., Chicago State Hosp., 1923-1924; Sr. Phys., Medfield State Hosp., Medfield, Mass., 1924-1926; Phys., Ass't. Supt. and Superintendent of State Hospital, Raleigh, N. C., 1926-1943; 1943—
- CARNEY COOPER PEARCE, JR., M.D., *Associate in Radiology*.
M.D., Virginia, 1940; Int., Rotat., Med. Coll. Virginia, 1940-1941; Ass't. Res. in Roent., Univ. Virginia Hosp., 1941-1943; Resident in Radiology, Duke Hospital, 1943—
- ARTHUR SPERRY PEARSE, B.S., A.M., Ph.D., LL.D., *Professor of Zoology*.
B.S., A.M., LL.D., Nebraska, 1900, 1904, and 1941; Ph.D., Harvard, 1908; Austin Teaching Fellow, Harvard, 1907-1908; London Sch. of Hyg. and Trop. Med., 1926; Instr. in Zool., Michigan, 1908-1910; Ass't. Prof., 1910-1911; Assoc. Prof., Philippines, 1911; St. Louis, 1911; Wisconsin, 1911-1912; Assoc. Prof., 1912-1919; Prof., 1919-1927; Prof., Keiogijuku Digaku, Tokyo, 1929-1930; 1930—

TALMAGE LEE PEELE, A.B., M.D., *Assistant Professor of Anatomy.*

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JULIAN MEADE RUFFIN, A.B., M.A., M.D., *Associate Professor of Medicine.*

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CHARLES HENRY SAWYER, A.B., Ph.D., *Associate in Anatomy.*

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CLOTILDE SCHLAYER, Ph.D., *Research Assistant in Medicine.*

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JOHN ARTHUR SEGERSON, A.B., M.D., *Assistant in Neurology.*

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D. GORDON SHARP, B.S., M.A., Ph.D., *Research Associate in Experimental Surgery.*

B.S., Rutgers, 1932; M.A. and Ph.D., Duke, 1937 and 1939; Research Physicist in x-ray and ultraviolet ray, Westinghouse Elec. & Mfg. Co., Bloomfield, N. J., 1932-1936; Research Fellow in Physics, Duke Univ., and Fellow in Surg., Duke Med. Sch., 1936-1939; 1939—

WILLIAM WARNER SHINGLETON, A.B., M.D., *Assistant in Surgery.*

A.B., Atlantic-Christian, 1939; M.D., Bowman-Gray, 1943; Int. and Assistant Resident in Surgery, Duke Hospital, 1944—

RAYMOND J. SIMMONS, B.S., M.D., *Assistant in Surgery.*

B.S., Cornell, 1939; M.D., Rochester, 1943; Int. in Path., Strong Mem. Hosp., Rochester, N. Y., 1944-1945; Assistant Resident in Surgery, Duke Hospital, 1945—

DAVID TILLERSON SMITH, A.B., M.D., *Professor of Bacteriology and Associate Professor of Medicine.*

A.B., Furman, 1918; M.D., Johns Hopkins, 1922; Int. in Ped., Johns Hopkins Hosp., 1922-1923; Ass't. in Path. and Bact., Rockefeller Instit., 1923-1924; Bacteriologist, Pathologist and Director, Research Laboratory of N. Y. State Hosp. for Tuberculosis, Ray Brook, 1924-1930; Bacteriologist and Associate Physician, Duke Hospital, 1930—

MILTON CREGO SMITH, A.B., B.S., M.D., *Assistant in Pediatrics.*

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*O. NORRIS SMITH, B.A., M.D., *Associate in Medicine.*

B.A., Washington and Lee, 1929; M.D., Pennsylvania, 1933; Int., Rotat., Pennsylvania Hosp., 1933-1935; Res. in Path., Univ. Hosp., and Ass't. Instr. in Path., Univ. of Pa. Med. Sch., 1935-1937; Ass't. Phys., O. P. C., Pennsylvania Hosp., 1936-1937; Ass't. Res. in Med., Duke Hospital, 1937-1938; 1937—

PRESTON WILLIAM SMITH, *Technical Instructor in Clinical Microscopy.*
Ass't. and Technical Instructor in Clinical Microscopy, 1932—

SUSAN GOWER SMITH, A.B., M.A., *Associate in Medicine.*

A.B., Barnard, 1919; M.A., Columbia, 1924; Chemist, N. Y. State Hosp., 1926-1930; Instr. in Biochem.; Instr. in Physiol. and Pharm.; Assoc. in Physiol. and Nutrition, and Associate in Med.; 1930—

MARY HELEN SNIVELY, R.N., *Instructor in Anesthesia.*

R.N., Johns Hopkins Hosp. Sch. of Nursing, 1929; Certificate in Anesthesia, Johns Hopkins Hosp., 1930; Anesthetist, Duke Hospital, 1930—

WILLIAM BREWSTER SNOW, B.S., M.S., *Instructor in Preventive Medicine and Public Health.*

B.S., Duke, 1932; M.S., Harvard, 1942; Acting Associate Professor of Sanitary Engineering, North Carolina, 1942—

JOSEPH ANDERSON SPEED, M.D., *Director of Student Health.*

M.D., Jefferson, 1914; Int., Rotat., Phila. Polyclinic Hosp., 1914-1915; Int., Babies Hosp., Phila., June-Nov., 1915; in practice, Durham, 1915-1917; Capt., Med. Corps, 113th Field Artillery, A. E. F., 1917-1919; in practice and College Phys. for Students, Trinity Coll., 1920-1930; 1930—

*JOSEPH BLACKBURN STEVENS, B.S., M.D., *Associate in Medicine.*

B.S., Davidson, 1932; M.D., Duke, 1935; Int., Jr. Ass't., Ass't. Res. in Path.; Int. and Ass't. Res. in Med., and Res. in Neurol., Duke Hospital, 1936-1940; 1940—

FREDERICK W. STOCKER, M.D., *Associate in Ophthalmology.*

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M.D., St. Louis, 1932; Int., Neuropsychiatric Serv., Alexian Bros. Hosp., St. Louis, 1931-1932; Int., St. Louis City Hosp., 1932-1933; Res. in Psychiatry, Highland Hosp., Asheville, N. C., 1933-1938; Ass't. in Psychiatry, Johns Hopkins Med. Sch., 1938-1940; Ass't. Dispen. Psych., Johns Hopkins Hosp., 1939-1940; *Assistant Neuropsychiatrist, Duke Hospital, 1940—*

DANIEL JOSEPH SULLIVAN, M.D., *Instructor in Neuropsychiatry.

M.D., Temple, 1934; Int., Rotat., Gallinger Municipal Hosp., 1934-1935, and Res. in Psychiatry, St. Elizabeth's Hosp., Washington, D. C., 1935-1936; Instr. in Neurol., George Washington Med. Sch., 1935-1936; Visit. Jr. Psych., Washington Mental Hyg. Institute, Washington, D. C., 1935-1936; Sr. Phy., in Charge of Male Admission Serv., Boston State Hosp., Feb. 1, 1938-Dec. 15, 1939; Assistant to the Medical Director, Highland Hospital, Asheville, N. C., 1940—

ALTON ROBERT TAYLOR, B.S., Ph.D., *Research Associate in Surgery.*

B.S., Wesleyan, 1930; Ph.D., Princeton, 1939; Research Ass't. and Research Assoc. in Biol., Princeton, 1930-1939; 1939—

HAYWOOD MAURICE TAYLOR, B.S., M.S., Ph.D., *Associate Professor of Biochemistry and Toxicology.*

B.S., M.S., and Ph.D., North Carolina, 1920, 1921, and 1924; Instr. in Chem. and Pharmaceut. Chem., North Carolina, 1920-1925; Research Chemist, E. R. Squibb & Sons, and Fisk Rubber Co., 1925-1928; Instr. in Ophthalmol., and Chemist to Wilmer Institute, Johns Hopkins Hosp., 1928-1930; Visiting Fellow in Forensic Med., New York Univ., 1934; *Associate Biochemist and Toxicologist, Duke Hospital, 1930—*

WALTER LEE THOMAS, JR., A.B., M.A., M.D., *Assistant Professor of Obstetrics and Gynecology.

A.B., Lynchburg, 1926; M.A. and M.D., Virginia, 1927 and 1931; Int., Virginia-Mason Hosp., 1931-1932; Ass't. Res. and Res. in Obs. and Gyn., Duke Hosp., 1932-1935; Assistant Obstetrician and Gynecologist, Henry Ford Hosp., Detroit, 1936-1937; *Assistant Obstetrician and Gynecologist, Duke Hospital, 1932—*

EDGAR TRISTRAM THOMPSON, A.B., A.M., Ph.D., *Associate Professor of Sociology and Mental Hygiene.*

A.B., South Carolina, 1922; A.M., Missouri, 1924; Ph.D., Chicago, 1932; Instr., North Carolina, 1924-1926; Adjunct Prof., Texas, 1927-1928; Instr., Earlham Coll., Richmond, Ind., 1928-1929; Adjunct Prof., Washington, 1930-1931; Research Prof. in Soc., Hawaii, 1932-1935; Ass't. Prof. and Associate Professor of Sociology, Duke University, 1935; 1941—

KEARNS REID THOMPSON, A.B., M.D., *Assistant in Orthopaedics.*

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B.A., Hawaii, 1936; M.D., Chicago, 1940; Int., Rotat., Cincinnati Gen. Hosp., 1940-1941; Ass't. Res. in Endoc., Duke Hosp., July 1-Dec. 31, 1941; Int., Chicago Lying-In Hosp., Jan. 1-Dec. 21, 1942; *Assistant Resident in Obstetrics and Gynecology, Duke Hospital, 1943—*

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ROMANO HUMBERTO DE MEIO, Ph.D., Buenos Aires, 1928; Rockefeller Foundation Scholar; *Physiology*.

PIERSON PRESBUY DEMING, A.B., Washington, 1940; M.D., Tennessee, 1943; *Fellow in Pathology*.

CARLETON CECIL DOUGLASS, A.B., Delaware, 1941; M.D., Duke, 1945; *Fellow in Otolaryngology and Ophthalmology*.

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- FRIDRIK KRISTOFERSSON, M.D., Iceland, 1941; Rockefeller Foundation Scholar; *Neurosurgery*.
- I. WILLIAM McLEAN, JR., B.S., Davidson, 1938; M.D., Duke, 1942; *Research Fellow in Virus Diseases*.
- BRITA ROSENQUIST McLEAN, B.S., Pittsburgh, 1938; M.D., Duke, 1942; *Fellow in Medicine*.
- WILLIAM EDWIN MATTHEWS, A.B., North Carolina, 1926; M.D., Tulane, 1930; *Fellow in Urology*.
- ENRRIQUE MONTERO, M.D., Quito, 1944; Rockefeller Foundation Scholar; *Surgery*.
- JAMES DONALDSON MOODY, A.B. and M.D., Duke, 1940 and 1944; *Fellow in Physiology*.
- OLAFUR SIGURDSSON, M.D., Iceland; Rockefeller Foundation Scholar; *Medicine*.
- HELEN STARKE, A.B. and M.D., Duke, 1938 and 1942; Research Fellow; *Medicine*.
- OSCAR URTEAGA-BALLON, B.S. and M.D., San Marcos, 1935 and 1942; Commonwealth Fund Fellow; *Pathology*.
- EUSEBIO VILLAMAYOR, M.D., Paraguay, 1940; Pan American Sanitary Bureau Fellow; *Obstetrics and Gynecology*.
- ELLIOTT VOLKIN, B.S., Pennsylvania, 1942; Abbott Laboratories Fellow; *Biochemistry*.
- JUAN ZAÑARTU, M.D., Chile, 1942; Pan American Sanitary Bureau Fellow; *Endocrinology*.

NONRESIDENT FELLOWS

- *TROGLER FRANCIS ADKINS, M.D., Duke, 1936; *Obstetrics and Gynecology*.
- *RAYMOND BURK ANDERSON, A.B., M.D., Kansas, 1935 and 1939; *Pediatrics*.
- *ELBERT D. APPLE, M.D., Washington, 1929; *Medicine*.
- *HOWARD D. APPLE, D.D.S., Atlanta Southern, 1939; *Dentistry*.
- *RALPH A. ARNOLD, B.A., Rochester, 1932; M.D., Buffalo, 1936; *Ophthalmology and Otolaryngology*.
- *GORDON JOSEPH AXELSON, M.D., Duke, 1937; *Medicine*.
- *WILLIAM STERRY BRANNING, B.S., North Carolina, 1934; M.D., Yale, 1939; *Pediatrics*.
- *WILLIAM HENRY BRIDGERS, B.S. and M.D., Duke, 1936; *Surgery*.
- *IVAN WILLARD BROWN, JR., B.S. and M.D., Duke, 1940; *Pathology*.
- *WOODROW WILSON BURGESS, A.B. and M.D., Duke, 1937 and 1941; *Neuropsychiatry*.
- *FRED S. CADDELL, A.B., Elon, 1930; D.D.S., Atlanta Southern, 1934; *Dentistry*.
- *JAMES HENDERSON CHERRY, B.S. and M.D., Duke, 1932 and 1934; *Orthopaedics*.

* On active duty; U. S. Army.

- *WILLIAM DEMPSEY FARMER, A.B. and M.D., Duke, 1930 and 1934; *Ophthalmology and Otolaryngology*.
- *WILLIAM LORENZ HALTOM, M.D., Duke, 1932; *Urology*.
- *JOSEPH SPURGEON HIATT, JR., A.B. and M.D., Duke, 1936 and 1940; *Medicine*.
- †JOSEPH M. HITCH, A.B., Delaware, 1929; M.D. and M.S., Virginia, 1933 and 1938; *Dermatology and Syphilology*.
- *WILLIAM FREDWIN HOLLISTER, M.D., Duke, 1938; *Surgery*.
- *JULIAN ERICH JACOBS, M.D., Nebraska, 1935; *Orthopaedics*.
- *ARTHUR G. JAMES, M.D., Ohio, 1933; *Surgery*.
- *ARTHUR HARVEY JOISTAD, JR., A.B., North Dakota, 1933; M.D., Duke, 1938; *Radiology*.
- *HAROLD BARKER KERNODLE, M.D., Duke, 1939; *Surgery*.
- *ROBERT CARL LINICOME, M.D., Duke, 1938; *Medicine*.
- *RUDOLPH POWERS McCULLOCH, A.B., Michigan State Normal, 1937; M.D., Duke, 1942; *Medicine*.
- *COYTE R. MINGES, D.D.S., Virginia, 1936; *Dentistry*.
- *GIBBONS WESTBROOK MURPHY, M.D., Emory, 1923; *Radiology*.
- *GLENN CARRAWAY NEWMAN, B.S. and M.D., Duke, 1938 and 1939; *Medicine*.
- *PAUL WELSTEAD SCHANHER, JR., B.S. and M.D., Duke, 1935 and 1938; *Surgery*.
- *WILLIAM SCHULZE, B.S., Richmond, 1932; M.D., Duke, 1936; *Medicine*.
- *WILL CAMP SEALY, B.S. and M.D., Emory, 1933 and 1936; *Surgery*.
- *CHRISTOPHER STUART, JR., M.D., McGill, 1934; *Urology*.
- *HUGH FRANKLIN SWINGLE, JR., B.S., Tennessee, 1933; M.D., Duke, 1936; *Medicine*.
- *EVERETTE R. TEAGUE, D.D.S., Atlanta Southern, 1933; *Dentistry*.
- *EDWIN HALE THORNHILL, M.D., Duke, 1938; *Ophthalmology and Otolaryngology*.
- *SAMUEL EARLE UPCHURCH, B.A. and M.D., Vanderbilt, 1929 and 1933; *Surgery*.
- *CHESTER H. WATERS, JR., B.A., Amherst, 1932; M.D., Nebraska, 1936; *Orthopaedics*.
- *PERRY B. WHITTINGTON, JR., D.D.S., Pennsylvania, 1932; *Dentistry*.
- *LOUIS B. ZIV, A.B. and M.D., Johns Hopkins, 1926 and 1930; *Surgery*.

* On active duty; U. S. Army.

† On active duty; U. S. Navy.

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 KENNETH LEROY PICKRELL, M.D., *Surgery*.
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 JEAN DAVIDSON CRAVEN, A.B., M.D., *Pediatrics*.
 ATALA THAYER SCUDDER DAVISON, A.B., M.D., *Pediatrics*.
 SUSAN COONS DEES, A.B., M.S., M.D., *Pediatrics*.
 *JEROME SYLVAN HARRIS, A.B., M.D., *Pediatrics*.
 ARTHUR HILL LONDON, JR., A.B., M.D., *Pediatrics*.

* On active duty; U. S. Army.

† On active duty; U. S. Navy.

‡ On leave of absence.

- ANGUS MCBRYDE, B.S., M.D., *Pediatrics*.
 DANIEL FRANKLIN MILAM, A.B., M.P.H., M.D., *Preventive Medicine and Public Health*.
 GEORGE JAY BAYLIN, A.B., M.D., *Radiology*.
 CARNEY COOPER PEARCE, JR., M.D., *Radiology*.
 *CYRUS CONRAD ERICKSON, B.S., B.M., M.D., *Pathology*.
 HAYWOOD MAURICE TAYLOR, B.S., M.S., Ph.D., *Toxicology*.
 HANS NEURATH, Ph.D., *Biochemistry*.
 *LINUS MATTHEW EDWARDS, JR., D.D.S., *Dentistry*.
 *NORMAN F. ROSS, D.D.S., *Dentistry*.
 *LEO ALEXANDER, A.B., M.D., *Neuropsychiatry*.
 †RAYMOND S. CRISPELL, A.B., M.D., *Neuropsychiatry*.
 *ROBERT L. GARRARD, A.B., M.S., B.S., M.D., *Neuropsychiatry*.
 MAURICE H. GREENHILL, A.B., M.D., *Neuropsychiatry*.
 HANS LÖWENBACH, M.D., *Neuropsychiatry*.
 ROBERT BURKE SUITT, M.D., *Neuropsychiatry*.
 *DANIEL JOSEPH SULLIVAN, M.D., *Neuropsychiatry*.
 CHARLOTTE FRISCH WALKER, M.D., *Neuropsychiatry*.

Resident Staff

Residents, 1945

- JOHN ALEXANDER DAVIDSON, A.B., Dartmouth, 1933; M.D., Vermont, 1942; *Urology*.
 SAMUEL REA KILGORE, B.S., Citadel, 1938; M.D., Duke, 1943; *Neuropsychiatry*.
 HERBERT ARTHUR KING, A.B. and M.D., Duke, 1938 and 1942; *Medicine*.
 PAUL ROBINSON MASSENGILL, A.B. and M.D., Duke, 1931 and 1943; *Otolaryngology and Ophthalmology*.
 HOWARD JAMES SCHAUBEL, A.B., Hope, 1938; M.D., Michigan, 1942; *Orthopaedics*.
 JOSIAH CHARLES TRENT, A.B., Duke, 1934; M.D., Pennsylvania, 1938; *Surgery*.
 VIOLET HORNER TURNER, B.A., Hawaii, 1936; M.D., Chicago, 1940; *Obstetrics and Gynecology*.
 LUTHER BRADFORD WATERS, JR., B.A., Hampden-Sydney, 1935; M.D., Virginia, 1941; *Radiology*.

Assistant Residents, 1945

- ALBERT JERVISS ALTER, A.B., Yale, 1940; M.D., Duke, 1943; *Medicine*.
 MARIE BALDWIN, A.B., Erskine, 1924; M.D., South Carolina, 1929; *Neuropsychiatry*.
 LEO BASHINSKY, A.B. and M.D., Vanderbilt, 1939 and 1943; *Pediatrics*.
 FRANK CUTCHIN BONE, A.B. and M.D., Duke, 1940 and 1943; *Medicine*.
 GEORGE ORIN BOUCHER, A.B. and M.D., Duke, 1939 and 1943; *Pediatrics*.
 ROBERT ALEXANDER BROOME, JR., M.D., Duke, 1944; *Medicine*.
 EUGENE CALLAWAY, JR., M.D., Virginia, 1943; *Pediatrics*.
 ALFRED NIXON COSTNER, B.S., North Carolina, 1940; M.D., Washington, 1943; *Otolaryngology and Ophthalmology*.
 GEORGE GORDON CULBRETH, A.B. and M.D., Duke, 1940 and 1943; *Pathology*.
 ALAN DAVIDSON, A.B., Dartmouth, 1939; M.D., Vermont, 1943; *Otolaryngology and Ophthalmology*.
 CHARLES KENDALL DONEGAN, M.D., Duke, 1943; *Medicine*.
 WILLIAM MCCOY EAGLES, A.B. and M.D., Duke, 1940 and 1943; *Surgery*.
 JOHN CAPERS GLENN, M.D., Duke, 1943; *Surgery*.
 LAWRENCE ELLIOTT GORDON, JR., A.B., Emory and Henry, 1939; M.D., Duke, 1943; *Obstetrics and Gynecology*.
 LUCY JANE GREGORY, A.B., Sweet Briar, 1938; M.D., Duke, 1942; *Obstetrics and Gynecology*.

* On active duty; U. S. Army.

† On active duty; U. S. Navy.

- ROBERT FRANCIS HEIMBURGER, B.S., Drury, 1939; M.D., Johns Hopkins, 1943; *Surgery*.
- GAMEEL BYRON HODGE, B.S., Wofford, 1938; M.D., Vanderbilt, 1942; *Surgery*.
- JAMES MAYHEW INGRAM, M.D., Duke, 1943; *Obstetrics and Gynecology*.
- EDMUND PARSONS JONES, B.A. and M.D., Texas, 1940 and 1943; *Pediatrics*.
- BEATRICE HART KUHN, B.A., Swarthmore, 1939; M.D., Duke, 1943; *Dermatology and Syphilology*.
- WILLIAM EDWARD LEEPER, JR., M.D., Duke, 1943; *Medicine*.
- KEITH MILLNER OLIVER, B.S., Virginia Polytechnic Institute, 1939; M.D., Duke, 1943; *Pediatrics*.
- JOHN FREDERICK OTT, M.D., Duke, 1943; *Neuropsychiatry*.
- VICTOR ANTHONY POLITANO, B.S., Marshall, 1940; M.D., Duke, 1943; *Urology*.
- CHARLES EMMETT RICHARDS, JR., A.B., Dartmouth, 1936; M.A., Western Reserve, 1939; *Urology*.
- KATHLEEN AMELIA RILEY, B.S., Furman, 1937; M.D., South Carolina, 1941; *Dermatology and Syphilology*.
- JAMES MERVIN RODDA, B.A. and M.D., Oregon, 1935 and 1944; *Radiology*.
- GUSTAVO ROSS, M.D., Chile, 1943; *Pediatrics*.
- JOHN ARTHUR SEGERSON, A.B., Holy Cross, 1940; M.D., Rochester, 1943; *Neurology*.
- WILLIAM WARNER SHINGLETON, A.B., Atlantic-Christian, 1939; M.D., Bowman-Gray, 1943; *Surgery*.
- RAYMOND J. SIMMONS, B.S., Cornell, 1939; M.D., Rochester, 1943; *Surgery*.
- MILTON CREGO SMITH, A.B. and B.S., Michigan, 1935 and 1940; M.D., Duke, 1943; *Pediatrics*.
- KEARNS REID THOMPSON, JR., A.B. and M.D., Duke, 1939 and 1942; *Orthopaedics*.
- DAVID ALEXANDER WILSON, A.B., Wooster, 1932; M.A., Wesleyan, 1933; M.D., Ohio, 1938; *Surgery*.
- MARGARET WILSON, B.S., Salem, 1940; M.D., Duke, 1943; *Otolaryngology and Ophthalmology*.
- ROBERT WALKER WITHERS, JR., A.B., Florida, 1940; M.D., Duke, 1943; *Pathology*.
- JOSEPH JAMES ZAVERNIK, A.B. and M.D., Johns Hopkins, 1942 and 1943; *Surgery*.

Interns, 1945

- ROBERT JAMES ATWELL, A.B. and M.D., Duke, 1941 and 1944; *Medicine*.
- HORACE MITCHELL BAKER, JR., A.B., North Carolina, 1941; M.D., Duke, 1944; *Surgery*.
- RICHARD GEORGE BARSTOW, B.S., Michigan State, 1942; M.D., Michigan, 1944; *Obstetrics and Gynecology*.
- WALTER RUSSELL BENSON, M.D., Duke, 1944; *Surgery*.
- CHARLES MARVIN BLACKBURN, A.B., Oklahoma, 1941; M.D., Duke, 1944; *Medicine*.
- JOHN POPE COLLINS, A.B. and M.D., Duke, 1941 and 1944; *Surgery*.
- RICHARD GRIGSBY CONNAR, A.B. and M.D., Duke, 1941 and 1944; *Medicine*.
- ROBERT THOMAS CRONK, A.B., Tulsa, 1941; M.D., Duke, 1944; *Otolaryngology and Ophthalmology*.
- WILLIAM HERSEY DAVIS, JR., A.B. and M.D., Duke, 1941 and 1944; *Pediatrics*.
- HENRY MARTIN DRATZ, M.D., Duke, 1944; *Surgery*.
- ERNEST GOODALL EDWARDS, M.D., Duke, 1944; *Surgery*.
- BERNARD FRANK JOSEPH FETTER, B.S., Johns Hopkins, 1941; M.D., Duke, 1944; *Surgery*.
- PHILLIP E. GETSCHER, M.D., Nebraska, 1944; *Surgery*.
- WALTER GOTHARD GOBBEL, JR., B.S. and M.D., Duke, 1944; *Pathology*.
- WILLIAM WILLS GREEN, JR., A.B., North Carolina, 1941; M.D., Duke, 1944; *Medicine*.

- LE MAR JAMES HANKAMP, B.A., Hope, 1941; M.A., Rochester, 1944; *Medicine*.
CHARLES WARREN IRVIN, JR., M.D., Duke, 1944; *Medicine*.
GEORGE WALLACE KERNODLE, A.B., Elon, 1941; M.D., Duke, 1944; *Pediatrics*.
ROBERT BRUCE KUBEK, A.B. and M.D., Duke, 1941 and 1944; *Medicine*.
JOHN FULLER LAWSON, M.D., Duke, 1944; *Medicine*.
WILLIAM WAILES MAGRUDER, M.D., Duke, 1944; *Neuropsychiatry*.
THOMAS LEWIS MARTIN, A.B. and M.D., Duke, 1941 and 1944; *Medicine*.
FRANCIS ANTHONY MARZONI, A.B. and M.D., Vanderbilt, 1942 and 1944; *Surgery*.
MYRON DUANE MATTISON, M.D., Tennessee, 1944; *Pathology*.
HAROLD C. MESSENGER, A.B., Dartmouth, 1941; M.D., Rochester, 1944; *Pathology*.
KIRK MOORE, A.B., Princeton, 1941; M.D., Johns Hopkins, 1944; *Surgery*.
WILLIAM CLAYTON MORGAN, A.B., Catawba, 1940; M.D., Duke, 1944; *Surgery*.
LEONARD PALUMBO, M.D., Duke, 1944; *Obstetrics and Gynecology*.
HENRY LAMAR ROBERTS, B.A., Texas, 1941; M.D., Duke, 1944; *Surgery*.
EDGAR STANFIELD ROGERS, M.D., Duke, 1944; *Pathology*.
JAMES MATTHEW SAN, A.B. and M.D., Duke, 1941 and 1944; *Pediatrics*.
DOROTHY JEAN SHAAD, A.B., Kansas, 1929; M.A. and Ph.D., Bryn Mawr., 1930 and 1934; M.D., Kansas, 1944; *Pediatrics*.
FREDERICK WILLIAMS SMITH, B.A. and M.D., Vanderbilt, 1942 and 1944; *Surgery*.
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New York, New York.....	LAWRENCE S. KUBIE
New York, New York.....	JAMES B. MURPHY
New York, New York.....	BERTRAM J. SANGER
Rochester, New York.....	WILLIAM S. MCCANN
Syracuse, New York.....	PHILIP B. ARMSTRONG
Davidson, North Carolina.....	JOHN W. MACCONNELL
Cleveland, Ohio.....	B. S. KLINE
Columbus, Ohio.....	CHARLES A. DOAN
Dayton, Ohio.....	R. L. JOHNSTON
Toledo, Ohio.....	JOHN L. STIFEL
Warren, Ohio.....	R. D. HERLINGER
Portland, Oregon.....	KARL H. MARTZLOFF
Johnstown, Pennsylvania.....	W. FREDERIC MAYER
Palmerton, Pennsylvania.....	R. P. BATCHELOR
Philadelphia, Pennsylvania.....	JOHN T. BAUER
Pittsburgh, Pennsylvania.....	DAVENPORT HOOKER
Scranton, Pennsylvania.....	GEORGE A. CLARK
Charleston, South Carolina.....	†EDWARD F. PARKER, JR.
Charleston, South Carolina.....	J. I. WARING
Columbia, South Carolina.....	WILLIAM WESTON
Columbia, South Carolina.....	JAMES H. GIBBES
Chattanooga, Tennessee.....	†RICHARD VAN FLETCHER
Memphis, Tennessee.....	RAPHAEL E. SEMMES
Nashville, Tennessee.....	SAM L. CLARK
Sewanee, Tennessee.....	HENRY T. KIRBY-SMITH
Fort Worth, Texas.....	KHLEBER H. BEALL
San Antonio, Texas.....	P. I. NIXON
Salt Lake City, Utah.....	ALFRED J. RIDGES
Charlottesville, Virginia.....	HENRY B. MULHOLLAND
Richmond, Virginia.....	I. A. BIGGER
Roanoke, Virginia.....	HUGH H. TROUT
Seattle, Washington.....	R. D. FORBES
Spokane, Washington.....	E. REX SPEELMON
Huntington, West Virginia.....	*GEORGE M. LYON
Huntington, West Virginia.....	R. M. WYLIE
Madison, Wisconsin.....	WALTER E. SULLIVAN

* On active duty; U. S. Navy.

† On active duty; U. S. Army.

GENERAL STATEMENT

Duke University School of Medicine and Duke Hospital were established in 1925, through the munificent gift of the late James B. Duke. The *School of Medicine* has been planned to insure the greatest correlation between the various departments. These facilities are available also for students who are studying for degrees other than that of Doctor of Medicine. The School of Medicine has been approved as Class A by the American Medical Association and is also a member of the Association of the American Medical Colleges. On January 2, 1945, two hundred and ninety-six students were enrolled.

FACILITIES OF THE HOSPITAL

Duke Hospital, an integral part of Duke University School of Medicine, has every modern convenience for the diagnosis, proper care, welfare and comfort of the patients, both private and charity, white and colored, whether they come from Durham or from a distance. It has 604 beds, including 50 bassinets for newborn infants. *Medicine*, including dermatology and neurology, has 75 ward beds; *surgery*, including urology, otolaryngology, ophthalmology, and orthopaedics, 143 wards beds; *obstetrics*, including *gynecology*, 56, and 50 bassinets; *neuropsychiatry*, 23; and *pediatrics*, 52. There are 205 private rooms and semiprivate cubicles, 7 air-conditioned operating rooms, 4 obstetric delivery rooms, and ward and student laboratories. Offices and examining rooms for the members of the Medical Faculty are located in the Hospital. The Hospital has been approved for internships and residencies by the Council on Medical Education and Hospitals of the American Medical Association, and the American College of Surgeons.

Duke Hospital and its Public Dispensary were opened for patients on July 21, 1930. Two hundred and thirty-one thousand, eight hundred individuals have been examined, diagnosed, and treated up to June 30, 1944. The average daily census of hospital patients during the past year was 441; 82,764 visits were made to the Public Dispensary during the same period. Fifteen per cent of the patients come from within a radius of twenty miles, the remaining 85 per cent come from the other 99 counties in North Carolina and from 27 other states and 3 foreign countries. The average distance traveled by the patients is more than seventy miles.

Every effort is being made to co-operate with the medical profession, and patients are asked to return to the physicians who referred them to the Hospital and Clinic.

PUBLIC WARD PATIENTS. Duke Hospital cannot give charity treatment to all who apply; therefore, patients whose incomes are less than \$15 per week should apply to the Public Dispensary Division of the Duke Clinic on the days and hours listed below. The hospital fee consists of four classes of flat daily rates (private, semiprivate, semicharity, and charity), which cover all hospital costs, including those usually charged as extras, thereby making it possible to estimate, in advance, the probable cost of

hospitalization and to adjust the bill to the patient's resources. This policy of basing the rate upon the amount the patient can pay, rather than on the actual cost, has enabled many, who, under the former system, unnecessarily were objects of charity, to maintain their self-respect by contributing a fixed sum within their means. The actual cost to the Hospital for public care is over \$7.00 daily; but in order to meet the greatly increased demand for charity work, Duke Hospital adopted the co-operative plan of paying half the cost, provided the patient's local welfare department co-operated by paying the other half. This is in accordance with Mr. Duke's plan that the communities share, with the Duke Endowment, the burden of charity patients, instead of either carrying all of it. Although 63 per cent of the patients pay less than cost, the revenue from patients, their friends, the counties, and the Duke Endowment provides approximately half of their expenses. By having every patient contribute in accordance with his means, the balance, which Duke Hospital gives in charity or less than cost service, has been spread over a large number of people. Instead of giving complete and pauperizing charity care to four thousand patients, the Hospital has been able to assist approximately thirteen thousand individuals annually to obtain medical care for which they could not pay the full cost.

PUBLIC DISPENSARY DIVISION OF THE DUKE CLINIC. The general policy of admitting patients to the Public Dispensary and Wards is to consider carefully their financial and social status; income and size of family, special responsibilities, and the probable cost of treatment, all being weighed in determining admission. A married patient, for instance, with an income of less than \$15 per week is considered admissible to the Public Wards or Public Dispensary for ordinary conditions; the income limit, of course, varying according to the other factors which affect the patient's financial status. Those who are able to pay the ordinary fees of consultants and specialists are not admitted to the Public Dispensary, but may make arrangements through their own physicians for examinations by any member of the Hospital Staff or in the Private Diagnostic Clinic.

SCHEDULE OF THE PUBLIC DISPENSARY DIVISION OF THE DUKE CLINIC. Closed on Saturdays, Sundays, and holidays. Patients must register at the times listed. Appointments should be made in advance.

Registration hours: 12:00 M., unless otherwise noted below.

General Medicine
General Surgery
Neurosurgery
Obstetrics and Gynecology
(Women's Diseases)
Children's Diseases*
Skin Diseases
Eye
Ear, Nose, and Throat
Bone and Joint Diseases
Tumors
Urinary and Kidney Diseases

*Monday, Tuesday, Wednesday,
Thursday, and Friday.*

* Also at 9:00 A.M.

Dentistry: *Monday at 12:00 M.*

Cystoscopy: *Wednesday and Thursday, 1:30-5:00 P.M.**

Syphilis: *Children and Adults, Wednesday at 9:00 A.M.**

Asthma and Hay Fever } *Tuesday at 9:00 A.M.**

Diabetes } *White, Wednesday at 9:00 A.M.*

Infant Feeding } *Colored, Friday at 9:00 A.M.*

Fracture: *Friday at 9:00 A.M. to Noon.**

Pneumothorax (chest and tubercular): *Thursday at 9:00 A.M.**

Endocrine (sterility, menstrual disorders, etc.): *Tuesday, Wednesday, and Thursday at 8:30 A.M.-12:00 M.**

Hematology (diseases of the blood): *Monday at 1:00 P.M.**

Bronchoscopy: *Monday at 9:00 A.M.**

Neurology: *Monday at 9:00 A.M.**

Neuropsychiatry.*

The Public Dispensary charge is from \$3.00 to \$10.00 for the first visit to any department, plus the actual cost of x-rays and other materials used. For the return visits to the regular clinics, the rate is from fifty cents to one dollar for consultation or completion of examination; and \$2.00 for patients who have not been instructed to return, but who do so on their own initiative. In order to co-operate with the medical profession, anyone who wishes to attend the Public Dispensary should consult, and bring a letter from, his or her own physician. Delay will be avoided if appointments are made in advance.

PRIVATE PATIENTS. Patients who can pay the ward and private rates may at any time, through their family physicians, in consultation with any member of the Hospital Staff, make reservations by telephoning to the Admitting Office. Appointments for private examinations and treatments may be made in advance by telephoning to members of the Hospital Staff or to the Private Diagnostic Division of the Duke Clinic.

PRIVATE DIAGNOSTIC DIVISION OF THE DUKE CLINIC. This division was organized to co-ordinate the diagnostic studies, and to give better care for the complicated problems arising in the examinations of private patients. The Clinical Staff of Duke Hospital and School of Medicine forms the professional staff of this clinic, while the financial side is handled by a business manager. The offices and examining rooms are in Duke Hospital, and all the laboratory and diagnostic facilities of the Hospital and School of Medicine are utilized by the Clinic. A complete diagnostic survey usually requires from one to four days, and the charges generally range from \$15 to \$75, the amount depending on the work required and on the financial condition of the patient. As soon as each examination has been completed, a full report describing the results of the diagnostic studies is forwarded to the physician who referred the patient.

* By previous appointment only.

SCHOOL OF NURSING

MARGARET I. PINKERTON, B.S., R.N., *Dean of the School of Nursing and Professor of Nursing.*

MATILDA E. H. MOSELEY, A.B., R.N., B.S., *Acting Assistant Professor of Nursing Education.*

*JULIA E. WHITE, A.B., R.N., *Assistant to the Dean.*

VERA T. McCULLOCH, R.N., *Assistant to the Dean.*

The next class of students will be admitted to the Duke University School of Nursing on October 1, 1945, but applications will be considered at any time. Information about the entrance and other requirements, length of course, tuition fees, application forms, and bulletins may be obtained by writing to the Dean of the School of Nursing, Duke University, Durham, N. C.

SCHOOL OF DIETETICS

ELSIE W. MARTIN, A.B., M.S., *Professor of Dietetics.*

EDITH WESTCOTT ELONKA, B.S., *Assistant Dietitian.*

ERMA LEE ADAMS, *Recorder and Administrative Assistant Dietitian.*

JANE COLE, B.S., *Administrative Dietitian.*

ERNESTINE KERNODLE, B.S., *Administrative Dietitian.*

ANNETTE LAHR, B.S., *Therapeutic Ward Dietitian.*

JO HUTCHINSON, B.S., *Therapeutic Dietitian.*

FRANCES WATERS, B.S., *Administrative Ward Dietitian.*

SELETA WISEMAN, B.S., *Assistant Administrative Dietitian.*

SARA SUTHERLAND, B.S., *Assistant Administrative Dietitian.*

In addition to the training of medical students and nurses in dietetics, twelve student dietitians may be admitted to the School of Dietetics and given the certificate of graduate dietitian after the successful completion of one year. The entrance requirements are a Bachelor's degree from an approved university or college, with majors in nutrition and institutional management, and the courses in chemistry, biology, social science, and education recommended by the American Dietetic Association. The course for student dietitians provides instruction in all phases of hospital and institutional dietetics, including experience from the buying and storage of food to its service to the patients according to the physician's orders. In addition, if applying for graduate credit, they will be required to complete the courses in biochemistry, nutrition, and selected portions of physiology as given to the medical students.

More detailed information and application blanks may be obtained from the Professor of Dietetics, Duke University School of Dietetics, Durham, N. C. The course starts the first of July and the first of September. If a student receives advanced credit, a tuition fee of \$50 is charged. All students pay a registration fee of \$10 at the time of appointment; maintenance is provided.

HOSPITAL ADMINISTRATION

H. C. MICKEY, B.B.A., *Superintendent.*

F. R. PORTER, A.B., *Assistant Superintendent.*

R. T. HOLMES, A.B., *Assistant Superintendent.*

* On active duty; U. S. Army.

DE WITT WRIGHT, B.S., J.D., *Night Superintendent.*
 MARJORIE G. ROSS, A.B., *Personnel Officer.*
 C. H. COBB, Ph.G., *Business Manager, Medical Division.*
 MILDRED B. BURCH, *Assistant Business Manager, Medical Division.*
 E. S. RAPER, A.B., *Business Manager, Surgical Division.*
 *GEORGE BOKINSKY, A.B., *Assistant in Administration.*
 *J. G. BROTHERS, A.B., *Assistant in Administration.*
 *J. KENT DAVIS, A.B., *Assistant in Administration.*
 *S. O. GILMER, A.B., *Assistant in Administration.*
 D. F. PETERSON, *Assistant in Administration.*

After the war four internships in hospital administration leading to a certificate will again be available to university graduates whose character, tact, and ability for leadership are good, and whose academic standing is high. These internships are of three years' duration and pay a small salary in addition to room, board, and laundry. Vacations of two weeks are allowed at the beginning of the second and third years of internship.

The instruction is practical rather than theoretical in emphasis. The interns are rotated through five different assistant administrative positions in the Hospital. There is also a weekly seminar lasting two hours.

During these three years, the interns also register in the Graduate School of Duke University, and receive the A.M. degree after the successful completion of a thesis and twenty-four semester hours of University courses in various fields. Further information may be obtained by writing to the Superintendent, Duke Hospital, Durham, N. C.

COURSE IN LABORATORY TECHNIQUE

DAVID T. SMITH, A.B., M.D., *Professor of Bacteriology.*
 HAYWOOD M. TAYLOR, B.S., M.S., Ph.D., *Associate Professor of Biochemistry.*
 OSCAR C. E. HANSEN-PRÜSS, A.B., M.D., *Associate Professor of Medicine.*
 DONALD S. MARTIN, A.B., M.D., *Associate Professor of Bacteriology and Mycology.*

The course in laboratory technique includes training in blood chemistry, clinical microscopy, bacteriology, serology, basal metabolism, and histopathological technique. The course, which is approved by the Registry of Technicians of the American Society of Clinical Pathologists, lasts eighteen months. A new class will be admitted every nine months on the same dates that each class of first-year medical students is admitted. Two years of college work are required with credits in biology or zoology, and inorganic, analytical and organic chemistry. The registration fee is \$75, and there are no additional charges, except for breakage. The students live in town at their own expense. Applications may be sent to Dr. David T. Smith, Duke Hospital, Durham, N. C.

ANESTHESIA

MARY N. SNIVELY, R.N., *Chief Anesthetist and Instructor in Anesthesia.*
 ALICE R. RICHARDS, R.N., *Instructor in Anesthesia.*
 EVELYN R. AULD, R.N., *Instructor in Anesthesia.*
 MARY B. CAMPBELL, R.N., *Assistant in Anesthesia.*
 HORTENSE E. PADDOCK, R.N., *Assistant in Anesthesia.*
 A. FRANCES ROWLAND, R.N., *Assistant in Anesthesia.*

* On active duty; U. S. Army.

A twelve months' course in Anesthesiology is offered to six registered nurses each year. Appointments are made on the basis of individual merit and qualifications. Classes begin each January 15, April 15, July 15 and October 15. A tuition fee of \$100.00 covers all necessary expenses as full maintenance is provided for each appointee. The training includes two hundred hours of Theory of Anesthesiology. Practical experience, averaging seven hundred and fifty anesthetics, is given in the administration of all agents and techniques in modern usage. A graduate of this course is eligible for membership in the American Association of Nurse Anesthetists. Additional information concerning the training, and application forms may be obtained from Miss Mary H. Snively, Duke Hospital, Durham, N. C.

MEDICAL SOCIAL SERVICE

MAUDE McCracken, A.B., M.S., *Instructor in Medical Social Service.*
RHODA W. CLOUGH, A.B., B.S., M.S., *Assistant in Medical Social Service.*
LOIS LINDSEY, A.B., M.S., *Assistant in Medical Social Service.*

Medical Social case-work service is offered to patients referred by personnel within the Hospital, and by interested individuals and health and welfare agencies outside of the Hospital. Assistance and advice in connection with the problems presented are available to the members of the Staff and referring agencies.

The department assists in teaching social aspects of illness and medical care through consultations and lectures to the various students within the Duke Medical and Nursing Schools. It also serves as an agency for supervised field work for students of the Graduate School of the University of North Carolina. Further information concerning training for advanced students may be obtained from the Social Service Department, Duke Hospital, Durham, N. C.

RECORD LIBRARY

JESSIE HARNED BUFKIN, R.N., R.R.L., *Medical Record Librarian.*

A course for the training of medical record librarians, which has been given full approval by the American Association of Medical Record Librarians, and the American Medical Association, includes all details of the theory and practice of clinical record library methods. The length of the training is twelve months. The tuition fee is \$100 and does not include maintenance. Applications may be made to the Medical Record Librarian, Duke Hospital, Durham, N. C.

PHYSICAL THERAPY

LENOX D. BAKER, M.D., *Chairman of Committee on Physical Therapy.*
HELEN LOUISE KAISER, R.P.T.T., *Instructor in Physical Therapy, in Charge of Division of Physical Therapy.*
MARY C. SINGLETON, B.S., R.P.T.T., *Assistant in Physical Therapy.*
MIRIAM B. KILLAM, P.T., *Assistant in Physical Therapy.*
PHILIP H. RIDDLEBERGER, R.P.T.T., *Assistant in Physical Therapy.*
STELLA W. ROEBUCK, B.M., *Assistant in Physical Therapy.*
NELDA M. LUKINS, B.S., O.T.R., *Occupational Therapist.*

A twelve months' course in physical therapy is offered for men and women graduates of accredited schools of physical education or nursing. For the duration of the war selected applicants who have completed sixty college semester hours including credit in the sciences will be accepted. The curriculum provides instruction in anatomy, physiology, kinesiology, pathology, psychology, electrotherapy, neuropsychiatry and practical pathology. Instruction in the clinical subjects will be given by members of the faculty of the Duke University School of Medicine. Practical training will be given at Duke Hospital and affiliated institutions and includes supervision of orthopaedic problems in the Durham Public Schools. Students are accepted twice yearly, in September and March. The tuition fee is \$200.00. A certificate is awarded upon successful completion of the course. In addition to the training of physical therapy students, courses are given to members of the nursing school and to the medical students. Further information concerning the Course in Physical Therapy and application blanks may be obtained from Miss Helen Kaiser, Duke Hospital, Durham, N. C.

POSTGRADUATE STUDY

The School of Medicine is not limited to the training of its own students and Staff, but extends to the members of the medical profession the benefit of everything it has. Graduates in medicine are welcomed especially at the various clinics and demonstrations in medicine, surgery, obstetrics, and other specialties, which are held from 9 A.M. to 12:30 P.M. each Saturday and at the clinical-pathological conferences at 5 P.M. on Fridays. Postgraduate internships for one or two weeks are available to physicians in practice. No fees are charged; room and board can be obtained for \$20 per week. Further information may be obtained by writing to the head of the department concerned or to the Dean.

INTERNSHIPS AND RESIDENCIES

Internships of nine months' duration with room, board, laundry, and uniforms furnished, but without salary, are available in *medicine, surgery* (including general surgery, urology, and orthopaedics), *orthopaedics, urology, otolaryngology-ophthalmology, dentistry, obstetrics and gynecology, endocrinology, pediatrics, neuropsychiatry, and pathology*, commencing July 1, 1945, April 1, 1946 and January 1, 1947.

Application blanks for all internships, which must be returned at least three months before the beginning of the internship desired, may be obtained by writing to the Superintendent, Duke Hospital, Durham, N. C. Graduates of any Class A medical school are eligible for internships.

After the completion of an internship in Duke Hospital or in another acceptable hospital, a certain number may be appointed as assistant residents in medicine, surgery, obstetrics and gynecology, pediatrics, psychiatry, neurology, dermatology, orthopaedics, urology, otolaryngology, ophthalmology, roentgenology, pathology, biochemistry, or the Student Health Service, or as fellows of the Private Diagnostic Clinic, at a salary of \$250 to \$500 per year with maintenance, and eventually may be promoted to the

residency in the various departments or subdepartments of the Hospital at an annual salary of \$500 to \$1,000 with maintenance. Applications should be made to the head of the department concerned.

The Hospital and School of Medicine are an integral part of the Duke University campus, and its educational, recreational, and athletic facilities are available for the Resident Staff.

The present Resident Staff of eighty consists of a resident, five assistant residents, and nine interns in *medicine*; an assistant resident in *neurology*; two assistant residents in *dermatology and syphilology*; a resident, three assistant residents, and an intern in *neuropsychiatry*; a resident, six assistant residents, and twelve interns in *surgery* (the six assistant residents are assigned in rotation to *general surgery*, *orthopaedics*, and *pathology*); one resident, three assistant residents, and one intern in *otolaryngology and ophthalmology*; a resident, and an assistant resident in *orthopaedics*; a resident and two assistant residents in *urology*; a resident, five assistant residents, and four interns in *obstetrics and gynecology*; an intern in *endocrinology*; three assistant residents and four interns in *pediatrics*; a resident and three assistant residents in *radiology*; three assistant residents and three interns in *pathology*.

LIBRARY

JUDITH FARRAR, A.B., B.S., *Librarian*.

MILDRED PERKINS FARRAR, *Assistant Librarian*.

"To study the phenomena of disease without books is to sail an uncharted sea, while to study books without patients is not to go to sea at all."—SIR WILLIAM OSLER.

In addition to the General Library of Duke University and the departmental libraries of biology, chemistry, physics, etc., which have 664,191 volumes available for medical students, Duke Hospital Library contains 41,579 volumes of American and foreign medical literature and subscribes to 440 current American and foreign medical and other scientific journals. These books and journals are available daily from 8:30 A.M. to 11:00 P.M. for the students, nurses, Staff, and medical profession.

MEDICAL CARE

JOSEPH A. SPEED, *Physician in Charge*.

With the exceptions noted below, full medical and surgical care is furnished to all regularly matriculated medical students of the University for the health fee of \$3.33 per quarter. This service is under the direction of the Physician in Charge with the co-operation of the Staff of Duke Hospital. It includes hospitalization (limited to thirty days), medical and surgical care, drugs, dressings, x-ray studies, and ward but not special nursing. A charge for board is made at the same rate as in the University dining halls, and student meal tickets for these halls are accepted in payment of this board. Refraction of eyes and treatment of teeth and of all chronic and pre-existing conditions, such as diseased tonsils, hernia, elective surgery, chronic skin conditions, endocrine disturbances, etc., or accidents or illnesses occurring during vacations or while off the campus, are not included in this service. The cost of any neces-

sary braces and orthopaedic appliances, as well as of special nursing, must be borne by the patient.

STUDENT GOVERNMENT

The members of the student body elect an Honor Council, in which each class is represented. It is the duty of the Honor Council to hear all cases involving breaches of conduct on the part of members of the student body. All new students entering the School are required to comply with this system of government.

APPLICATION FOR ADMISSION

Application forms may be obtained by writing to the Committee on Admission, Duke University School of Medicine, Durham, N. C. Check or post office money order for \$5 payable to Duke University School of Medicine must accompany each application. This is not refundable. If further information is required after the Committee has studied the completed application, a personal interview with the Committee on Admission or a Regional Representative is arranged for the applicant. The candidate then is notified as soon as possible whether he has been accepted or declined; if accepted, he must send a deposit of \$50 within two weeks to insure enrollment. This money is applied toward the tuition. The next first-year class will be admitted October 1, 1945. Applications should be submitted at least six months before the opening date. The number of students in each class is limited to 76, but only those students will be accepted who give promise of being a credit to the School and the medical profession. Women are received on the same terms as men. In the event of vacancies, students from other medical schools may be considered for admission to any quarter for which their previous training has fitted them. Each application for advanced standing will be considered upon its own merits.

REQUIREMENTS FOR ADMISSION

"I request that great care and discrimination be exercised in admitting as students only those whose previous record shows a character, determination and application evincing a wholesome and real ambition for life."—JAMES B. DUKE.

Intelligence and character are the essential qualifications for admission.

The minimum requirements for admission to this School include approved college credits of not less than three full academic years, which shall include adequate preparation in English, mathematics, physics, biology, and chemistry.* This preparation should be obtained in college

* For the duration of the war, students may be eligible for admission who present collegiate credits of two academic years (four semesters or six trimesters), including English, theoretical and practical courses in physics, biology, general and organic chemistry, completed in approved institutions. These requirements are covered in the fifteen to twenty continuous months of the Army and Navy Specialized Training Programs.

Under present regulations only students who are ineligible for military duty may apply for admission to medical schools during 1945. Applications will be sent to those ineligible for military duty if they will write to the Committee on Admission, Duke University School of Medicine, Durham, N. C. They can be considered for the class starting October 1, 1945. Students who are eligible for military duty will be selected by the Army and the Navy from the ranks, and will be assigned to the various medical schools.

courses of one-year duration except for chemistry. In that subject a two-year course is recommended: the first year to cover general (inorganic) chemistry; the second, analytic and organic chemistry.

The premedical student should be aware of the importance of a well-rounded general education as a preparation for the study of medicine and not limit himself to scientific courses. He would be better advised to secure a knowledge of the principles and a thorough appreciation of the interrelations of the basic sciences than to accumulate credits in many courses. He should learn how to work independently, to observe critically, and to analyze, rather than simply store, the information presented. His choice of studies, beyond those required for admission, should be governed by his own chief interests and by the intellectual stimulus to be derived from the work. His major interest may be in any field, scientific or otherwise, and should provide an opportunity for the demonstration of his real ability. In general, he should avoid courses in subjects which are included in the medical curriculum.

The selection of students is based upon the quality rather than the quantity of preparation and upon demonstrated evidence of personal attributes of intelligence, character, and general fitness for the study and practice of medicine. In considering an applicant many sources of information may be consulted, including (1) his curricular and extracurricular college record, (2) carefully prepared, confidential appraisals by teachers who know him personally, (3) his percentile rating on the Medical Aptitude Test,* and (4) the results of an interview with members of the Admission Committee or one of its Regional Representatives.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE IN MEDICINE

After the completion of six quarters in the Duke University School of Medicine, Duke University, on the recommendation of the Executive Committee, grants the degree of Bachelor of Science in Medicine to medical students who have completed creditable investigative work, prepared an acceptable report of the investigation, and passed an examination upon the subject of the investigation before an advisory committee. Students who elect to undertake work toward this degree must obtain written permission from the Executive Committee after approval of their program by the head of the department in which the work is to be done. No credit toward this degree is given for additional college work. All students in good standing are encouraged to undertake such investigative work as they may elect with the approval of the head of the department in which they wish to work. All requirements must be completed three months prior to the date on which the B.S. degree is requested.

* This test is given at many of the colleges. If information is not available locally, it may be secured from Dr. F. A. Moss, Columbia Medical Building, Washington, D. C.

REQUIREMENTS FOR THE DEGREE OF DOCTOR OF MEDICINE

The degree of Doctor of Medicine is conferred on those who have completed, to the satisfaction of the Executive Committee, the twelve quarters of 11-12 weeks each of the curriculum of the School of Medicine, the preclinical and clinical examinations, and have signed an agreement that they will spend at least eighteen months of the succeeding three years in hospital or laboratory work acceptable to the Executive Committee. As a guarantee of this pledge the diploma is deposited in the Treasurer's Office until after the completion of this training. Failure to fulfill this agreement constitutes a waiver of any claim to possession of the diploma and the degree of Doctor of Medicine. During the war, the required period of approved hospital or laboratory training has been reduced to eighteen months, the latter half of which may be active duty in the Army, Navy or U. S. Public Health Service.

DEPARTMENT OF INSTRUCTION

Anatomy

J. E. MARKEE, *Professor of Anatomy.*

D. C. HETHERINGTON, *Associate Professor of Anatomy in Charge of Histology and Neurology.*

W. H. HOLLINSHEAD, *Associate Professor of Anatomy.*

J. W. EVERETT, *Assistant Professor of Anatomy.*

T. L. PEELE, *Assistant Professor of Anatomy.*

K. L. DUKE, *Associate in Anatomy.*

C. H. SAWYER, *Associate in Anatomy.*

G. J. BAYLIN, *Instructor in Anatomy and Assistant Professor of Radiology.*

The required courses of instruction in gross human anatomy, histology, and neurology are scheduled for five and one half days a week for a period of eighteen weeks during the first quarter and the first half of the second quarter. In all of this work considerable freedom is allowed the student in his selection of working hours and in the planning of his own methods of attack. Emphasis is placed upon the study of material in the laboratory. In an attempt to utilize more fully the laboratory time, visual educational methods are employed as fully as possible. These techniques consist of colored motion pictures of demonstration dissections, colored lantern slides, animated motion pictures of development and movies of serially sectioned material both embryological and neurological. All of the instruction is designed to be as informal and as nearly individual as possible. General principles and the functional viewpoint of living anatomy are stressed in the hope that the student may be stimulated to secure a working knowledge of anatomy in the broadest sense. Whenever possible, fresh tissues and living cells are made available for examination, and clinical cases exemplifying anatomical principles are studied whenever they are available at appropriate times. Through the co-operation of the Department of Radiology, the students are given an opportunity to study portions of the living human body as revealed by the fluoroscope and roentgenograph.

Demonstrations in Anatomy. Using dissections already prepared, weekly demonstrations of selected regions or systems are made by the members of the group. Sixth quarter—Two hours per week by arrangements. Second-year students in groups of 10.

Review in Anatomy. During the sixth quarter, a review in anatomy will be presented by the visual education methods outlined above, covering gross anatomy, neurology and histology. This optional review carries no units of credit. It is designed to refresh the student's knowledge of anatomy just before he begins to apply it during the clinical quarter.

Special Neuroanatomy. Laboratory work and conferences upon selected portions of the human central nervous system. A two-quarter course limited to 6 junior or senior students. Tuesday and Thursday mornings of the first quarter are devoted to study of sections and dissections of the brain stem. Satisfactory completion of the first quarter

will determine admission to the second quarter seminars—2 hours weekly by arrangement—upon special topics in neuroanatomy and neurophysiology.

Brain Modeling. Free-hand reconstruction in clay, from gross and sectioned material, of the chief tracts and nuclei of the human brain stem. A two-quarter course, by arrangement—4 to 10 students.

Experimental Neurology. An operative and laboratory study of the effect of various lesions upon the central and peripheral portions of the nervous system. 4 to 8 junior and senior students by arrangement. Prerequisite—operative surgery.

Seminar. This work is designed for those who are interested in becoming acquainted with some of the original literature on anatomical problems. A wide range of choice in the selection of topics is encouraged. Weekly, any quarter; time by arrangement. 6 to 10 students.

Advanced Studies in Anatomy. Further work in the several branches of anatomy may be arranged at any time. Prospective candidates for such work should discuss their wants with the members of the Staff in charge of the particular field in which work is requested, since only a small number can be accommodated at any one time. A few properly qualified students may be permitted to undertake original research under the direction of various members of the Staff.

Biochemistry

W. A. PERLZWEIG, *Professor of Biochemistry.*
H. M. TAYLOR, *Associate Professor of Biochemistry and Toxicology.*
HANS NEURATH, *Associate Professor of Biochemistry.*
MARY L. C. BERNHEIM, *Assistant Professor of Biochemistry.*
PHILIP HANDLER, *Assistant Professor of Biochemistry.*
A. R. HALL, *Visiting Fellow in Biochemistry.*
F. W. PUTNAM, *Instructor in Biochemistry.*
J. O. ERICKSON, *Research Fellow in Biochemistry.*
J. W. HUFF, *Nutrition Foundation Fellow in Biochemistry.*
E. VOLKIN, *Abbott Laboratories Fellow in Biochemistry.*
M. A. FORNEY, *Technical Assistant in Biochemistry.*

The required course in general biochemistry for first-year students is given over a period of eighteen weeks comprising the last half of the second quarter and throughout the third quarter. Two lectures, four laboratory periods, and one conference period per week are devoted first to the correlation of the fundamental facts and theories of physical and organic chemistry of proteins, fats, and carbohydrates with the chemistry of living organisms; followed by an intensive study of the chemical aspects of the processes of digestion, absorption, circulation and respiration, acid-base and salt equilibrium, intermediary and over-all metabolism. Each student carries out on himself a fairly complete, metabolic balance study involving quantitative analyses of blood and urine.

Since the success of the students in this course is largely determined by the adequacy and ready availability of their premedical training, it is urged that all students review the fundamental laws, theories, and facts of

chemistry before the beginning of the course. A circular outlining the topics requiring special attention is sent to all students upon admission. Additional copies of the circular may be obtained from the Dean's Office. An examination to test the state of preparation of the student is given in the beginning of the course in biochemistry.

Electives. In connection with the course given in the sixth quarter for second-year students a survey of pathological and clinical chemistry is presented. In this course are covered abnormalities of: protein, fat and carbohydrate metabolism, acid-base regulation, salt and water distribution, nitrogen retention, calcium and phosphorus metabolism, blood and derived bile pigments. The discussion of these topics is based upon case histories, including the records of the Clinical Chemical Laboratory of the Hospital.

Biochemical Research. The facilities of the department, including various types of research equipment and the clinical material of the blood chemistry laboratory, are available to properly qualified students for independent or supervised investigations. Chemical investigations of problems in biochemistry or in conjunction with the clinical departments and the Department of Pathology may be carried on.

Seminar in Toxicology. A round-table discussion of the homicidal, suicidal and industrial poisons, alcoholism, etc., by arrangement.

Laboratory Detection of Common Poisons. A laboratory course in the properties, detection, and identification of the common poisons. Consideration is given to the types of material to be examined, legal precautions to be taken and interpretation of the findings, by arrangement.

Chemistry of Proteins, Enzymes, and Viruses. A two-hour seminar is given weekly throughout the Autumn, Winter, and Spring Quarters.

Immunochemistry. A two-hour seminar given in collaboration with the Department of Bacteriology. This course is given in alternate years with the preceding course in protein chemistry.

Physiology, Pharmacology, and Nutrition

G. S. EADIE, *Professor of Physiology and Pharmacology.*

F. D. MCCREA, *Associate Professor of Physiology and Pharmacology.*

FREDERICK BERNHEIM, *Associate Professor of Physiology and Pharmacology.*

W. J. DANN, *Associate Professor of Physiology and Nutrition.*

HANS LÖWENBACH, *Assistant Professor of Neuropsychiatry and Physiology.*

MACDONALD DICK, *Associate in Medicine, Physiology, and Pharmacology.*

J. P. HENDRIX, *Associate in Medicine.*

PERCY M. DAWSON, *Visiting Professor in Physiology and Pharmacology.*

F. H. MCCUTCHEON, *Visiting Lecturer in Physiology and Pharmacology.*

R. H. DE MEIO, *Fellow in Physiology.*

J. D. MOODY, *Fellow in Physiology.*

The elements of physiology, pharmacology, and nutrition are taught in the laboratory and in frequent conferences.

Research. A few properly qualified students are permitted to undertake original research in physiology, pharmacology, or nutrition under the direction of various members of the Staff.

Pathology

W. D. FORBUS, *Professor of Pathology.*

VALY MENKIN, *Assistant Professor of Pathology.*

*C. C. ERICKSON, *Associate in Pathology.*

I. N. DUBIN, *Associate in Pathology.*

G. G. CULBRETH, *Assistant in Pathology.*

OSCAR URTEAGA-BALLON, *Assistant in Pathology.*

R. W. WITHERS, *Assistant in Pathology.*

C. M. BISHOP, *Technical Assistant in Pathology.*

MARY GOODYEAR, *Fellow in Pathology.*

General Pathology. The course in general pathology is given during the fourth and fifth quarter of the curriculum, following completion of the prerequisite courses in anatomy, physiology, and biochemistry. The course in pathology is coordinated with that in bacteriology, the timing and arrangement of the two courses being such that the general principles governing the growth and propagation of bacteria are covered before the students undertake the study of bacterial parasitism in the course in general pathology.

The objects of the instruction in pathology are briefly as follows: (a) to provide an opportunity for the medical student to gain a comprehensive knowledge of general biological principles as they may be observed in the diseased animal, (b) to guide the student in his study of the basic pathological reactions of animal tissues and of the individual as a whole to the environmental influences under which they live, and (c) to acquaint the students with the common disease entities. The course embraces a study of the nature, causation, development and outcome of disease, in brief, a comprehensive study of the reactions of the body to injury. The schedule of instruction falls into three major divisions, each dealing with one of the basic reactions to injury (submission, resistance, adaptation) and the disease entities arising out of their elaboration. A short period of orientation introduces the three major divisions of the schedule.

The permanently preserved materials of instruction consists of (a) a museum of fixed tissues, preserved in unsealed containers in each of which are deposited the organs from a single case, (b) the histological preparations made in the study of these cases, (c) complete clinical and anatomical protocols corresponding to the cases, and (d) a supplementary loan collection of microscopic preparations and lantern slides. These materials are in addition to those from the current autopsies, which average about 325 a year. All materials are catalogued and are grouped in such a way as to facilitate their use by the individual students and by the small groups into which the class is divided.

All the museum work of the class is done with small groups, each under the guidance of a senior instructor and his junior assistant. The assignment of instructors is changed at appropriate intervals. The chief emphasis of instruction is upon the basic pathological processes underlying the well-established disease entities. The central theme of the course is carried by lectures which orient the museum work of the various student groups. Although the emphasis is upon the basic reactions to injury and the corresponding pathological processes, this is accomplished

* On active duty; U. S. Army.

through the study of actual cases of human disease in which these general pathological processes occur. Disease is presented to the study as a natural phenomenon referable to the body as a whole, and no distinction is drawn between the basic pathological processes as they may happen to occur in the different organs of the body; nevertheless, adequate account is taken of their variations in localization and associated functional disturbances, etc., under different sets of circumstances, as the cases of well-defined disease entities are studied. The histological aspects of the pathological processes are studied coincidentally with the gross anatomical and physiological alterations of the tissues, thus maintaining a unity of conception of disease. As the various pathological processes and the disease arising from their elaboration are studied by the student groups, assignments involving reports on the study of groups of cases are made to individual students.

The group work and the individual student reports are supplemented by weekly conferences involving the class as a whole and dealing with problems presented by current autopsies and with other problems of general importance. Student collaboration in the post-mortem study is required. For this purpose the class is divided into groups of three students. One of these makes a bacteriological study of the case, but each student is required to make his own general pathological study of the case with appropriate protocols. Cases thus prepared are presented by the students before the class under the direction of the Staff; this takes the form of a clinical-pathological conference in which each student plays a separate role.

Elective Courses. Special courses in pathology are given to students who have completed the course in general pathology. These courses are elective and are available through special arrangement.

Clinical Pathological Conference. A weekly clinical pathological conference for advanced study, held during three quarters of the year, is open to all persons interested, but is designed especially for the Hospital and Medical School Staff. Attendance by all the students is encouraged but is optional. This conference deals with a single case which serves as a text for the discussion of fundamental problems related to the nature, cause, development, and treatment of disease.

On alternate Saturdays a diagnostic clinical-pathological conference is held in collaboration with the staffs of the medical and pediatric departments, dealing with current autopsies from these services. Attendance of the junior and senior students is required at this conference, in which they take an active part.

Miscellaneous weekly clinical-pathological conferences dealing with current cases under treatment on the various surgical services are held for instruction of the resident staffs concerned.

Student Research. Research facilities are provided for competent students. Those who show an interest in investigative work are given every encouragement and are allowed to work independently or in collaboration with the Staff.

Postgraduate Instruction. The Staff of the department is composed of senior nonresident and junior resident members. The junior residents Staff consists of interns, assistant residents, and a resident; all of these are active teachers as well as advanced students of disease. Ample opportunity for the development of careers in the field of pathology is provided for these men. Appointments are renewable over a number of years with appropriate advancement for those who demonstrate ability and adaptability for work in this field.

Medicolegal Instruction. The department works in close cooperation with the local coroner's office. A large proportion of the coroner's post-mortem investigations are made by the Staff. Special medicolegal investigations for others are undertaken from time to time. The department collaborates with other departments of the Medical School and with the Law School in an elective course in legal medicine that is given in alternate years.

Comparative Pathology. The department maintains a pathological diagnostic service for the State Laboratory of Animal Industry, from which valuable materials are obtained for the study of diseases of domestic animals. This connection also facilitates a close collaboration in experimental investigations between the Staff and the Bureau of Animal Industry.

Bacteriology and Parasitology

D. T. SMITH, *Professor of Bacteriology and Associate Professor of Medicine.*

A. S. PEARSE, *Professor of Zoology.*

N. F. CONANT, *Associate Professor of Bacteriology and Mycology.*

D. S. MARTIN, *Associate Professor of Bacteriology and Associate in Medicine.*

MARY A. POSTON, *Instructor in Bacteriology.*

E. E. MENESEE, JR., *Instructor in Medicine and Bacteriology.*

RUTH MCLEAN, *Research Associate in Bacteriology.*

H. W. CRAIG, *Technical Instructor in Bacteriology.*

Bacteriology, Immunology, Parasitology, and Mycology. The required course is given in the fourth quarter. An intensive study is made of the common bacteria, fungi, and parasites which cause disease in man. The scope of the laboratory course is reasonably wide and acquaints the student with all the methods and procedures employed in bacteriological laboratories. Most of the lecture time is devoted to the immunological and epidemiological aspects of infection. The instruction is designed to give the students a clear conception of: (1) how organisms gain entrance to the body, (2) the type of poisons which they produce, (3) the nature of immune bodies which are produced by the host, and (4) the methods of preventing the disease by active and passive immunization.

Research Bacteriology. Opportunities for original investigations are afforded a few specially qualified students.

Clinical Bacteriology. During their clinical clerkships on medicine (one quarter each for junior and senior classes), the students may perform the routine and special bacteriological work for the patients assigned to them on the teaching service, under the direction of the Department of Bacteriology and in parallel with the Biological Division of the medical clinic.

Medicine

FREDERIC M. HANES, *Florence McAlister Professor of Medicine.*

D. T. SMITH, *Professor of Bacteriology and Associate Professor of Medicine.*

J. M. RUFFIN, *Associate Professor of Medicine in Charge of Physical Diagnosis.*

O. C. E. HANSEN-PRÜSS, *Associate Professor of Medicine in Charge of Clinical Microscopy.*

CHRISTOPHER JOHNSTON, *Assistant Professor of Medicine.*

P. P. McCAIN, *Assistant Professor of Medicine.*

W. M. NICHOLSON, *Assistant Professor of Medicine.*

E. S. ORGAIN, *Assistant Professor of Medicine.*

*E. L. PERSONS, *Assistant Professor of Medicine.*

D. S. MARTIN, *Associate Professor of Bacteriology and Associate in Medicine.*

WALTER KEMPNER, *Assistant Professor of Medicine.*

E. B. CRAVEN, JR., *Associate in Medicine.*

MACDONALD DICK, *Associate in Medicine, Physiology, and Pharmacology.*

J. P. HENDRIX, *Associate in Medicine.*

SUSAN G. SMITH, *Associate in Medicine.*

†N. BOWMAN WISE, *Associate and James A. Greene Research Fellow in Medicine.*

A. DERWIN COOPER, *Instructor in Medicine.*

‡H. J. FOX, *Instructor in Medicine.*

*S. C. HALL, *Instructor in Medicine.*

*T. T. JONES, *Instructor in Medicine.*

*I. H. MANNING, JR., *Instructor in Medicine.*

E. E. MENEFEY, JR., *Associate in Medicine.*

CLOTILDE SCHLAYER, *Research Assistant.*

*O. N. SMITH, *Instructor in Medicine.*

P. W. SMITH, *Technical Instructor in Microscopy.*

M. F. JAMES, *Technical Instructor in Clinical Microscopy.*

*J. B. STEVENS, *Instructor in Medicine.*

R. W. GRAVES, *Assistant Professor of Neurology.*

*R. L. CRAIG, *Instructor in Neurology.*

J. L. CALLAWAY, *Associate Professor of Medicine in Charge of Dermatology and Syphilology.*

I. T. REAMER, *Instructor in Pharmacy.*

F. H. HESSER, *Instructor in Neurology.*

E. G. GOODMAN, *Instructor in Hematology and Allergy.*

H. A. KING, *Instructor in Medicine.*

A. J. ALTER, *Assistant in Medicine.*

F. C. BONE, *Assistant in Medicine.*

R. A. BROOME, JR., *Assistant in Medicine.*

C. K. DONEGAN, *Assistant in Medicine.*

W. E. LEEPER, JR., *Assistant in Medicine.*

E. L. HORGER, JR., *Fellow in Medicine.*

SIGMUNDUR JONSSON, *Fellow in Medicine.*

B. R. McLEAN, *Fellow in Medicine.*

OLAFUR SIGURDSSON, *Fellow in Medicine.*

HELEN STARKE, *Fellow in Medicine.*

J. A. SEGERSON, *Assistant in Neurology.*

R. O. NOOJIN, *Instructor in Dermatology and Syphilology.*

B. H. KUHN, *Assistant in Dermatology and Syphilology.*

K. A. RILEY, *Assistant in Dermatology and Syphilology.*

Clinical Microscopy is given in the fifth quarter. The course includes the essentials of hematology and the examination of fresh material, such as urine, stools, spinal fluids, sputum, transudates, and exudates. The most important parasites of man are studied by the use of fresh and museum

* On active duty; U. S. Army.

† On leave of absence.

‡ On active duty; U. S. Navy.

material. Second-year and senior students are given opportunities for special work and for investigation.

Physical Diagnosis and Introduction to Clinical Medicine. This course, in the sixth quarter, consists of instruction in history taking, physical examination, and the application of the preclinical science to the interpretation of findings. All departments, preclinical and clinical, including the specialties, participate. The importance of co-operation between clinic and laboratory is emphasized, and the preclinical departments extend the teaching of their particular branches in correlation with other preclinical and clinical studies. In this manner the course serves as an introduction to clinical medicine. The class is divided into sections of not more than ten students, and each student is given individual instruction.

Junior Medicine. Junior students are assigned in small groups for one quarter to the medical wards as clinical clerks. Teaching rounds are held from 8:30 to 9:30 A.M. on Mondays, Wednesdays, and Fridays. Medical clinics are given on Mondays, Wednesdays, and Saturdays at 11:30 A.M.

Therapeutics. Each group of junior students receives practical instruction in *pharmaceutics* under the guidance of an instructor in pharmacy. On Tuesdays and Thursdays from 1:30 to 2:30 P.M. bedside instruction is given in *applied pharmacology and therapeutics* to the group on Junior Medicine.

Senior Medicine. Senior students are assigned for one quarter to the Dispensary as clinical clerks. Teaching rounds are held from 9:30 to 11:30 A.M. on Mondays and Fridays. Seniors attend medical clinics on Mondays, Wednesdays, and Saturdays at 11:30 A.M.

Cutaneous Medicine and Syphilology. Instruction consisting of lectures, seminars, and study and treatment of patients in the out-patient clinic is offered each quarter to senior students.

Neurological Medicine. A sound understanding of neurological diseases is an essential equipment of every physician. Junior students are assigned neurological cases routinely during their service as medical clinical clerks. An elective course consisting of advanced bedside teaching in clinical neurology is offered for three quarters to senior students. The Laboratory of Experimental Neurology is available for postgraduate investigative work; this laboratory handles routinely the neurosurgical biopsy material, including intracranial tumors. An electro-encephalograph is in routine clinical use in both neurology and neuropsychiatry and is available for special research problems.

Neuropsychiatry

*R. S. LYMAN, *Professor of Neuropsychiatry.*

R. S. CARROLL, *Lecturer in Neuropsychiatry.*

BINGHAM DAI, *Lecturer in Psychiatry.*

J. F. OWEN, *Lecturer in Neuropsychiatry.*

H. E. JENSEN, *Professor of Sociology and Mental Hygiene.*

†R. S. CRISPELL, *Associate Professor of Neuropsychiatry.*

M. H. GREENHILL, *Associate Professor of Neuropsychiatry, Acting Head of the Department.*

* On leave of absence.

† On active duty; U. S. Navy.

- *LEO ALEXANDER, *Associate Professor of Neuropsychiatry.*
 HERMAN DEJONG, *Associate Professor of Neuropsychiatry.*
 †D. K. ADAMS, *Associate Professor of Psychology.*
 E. T. THOMPSON, *Associate Professor of Sociology and Mental Hygiene.*
 HANS LÖWENBACH, *Assistant Professor of Neuropsychiatry and Physiology.*
 ALEXANDER ADLER, *Visiting Assistant Professor of Neuropsychiatry.*
 R. B. SUITT, *Associate in Neuropsychiatry.*
 OTTO BILLIG, *Associate in Neuropsychiatry.*
 R. C. CARROLL, *Associate in Neuropsychiatry.*
 C. F. WALKER, *Associate in Neuropsychiatry.*
 *D. J. SULLIVAN, *Instructor in Neuropsychiatry.*
 *R. L. GARRARD, *Instructor in Neuropsychiatry.*
 S. R. KILGORE, *Instructor in Neuropsychiatry.*
 MARIE BALDWIN, *Assistant in Neuropsychiatry.*
 J. F. OTT, *Assistant in Neuropsychiatry.*
 BARBARA KIRKPATRICK, *Social Worker.*
 KATHARINE R. LYMAN, *Social Worker.*

Instruction starts in the first year with an introductory course in psychobiology. In the second year methods of psychiatric examination and a general presentation of the main reaction types are given. Each third year student has a two-week clerkship on the psychiatric ward, and in the fourth year patients are worked up in the out-patient clinic for a period of three and a half weeks. A neuropsychiatric amphitheater clinic is held weekly throughout the year for third and fourth year students. Elective courses in Neuropsychiatric Methods of Research, Neurophysiological Aspects of Neuropsychiatry, Psychosomatic Medicine, Psychonanalysis in Medicine, and Principles of Psychotherapy are offered to fourth year students. Students are invited to attend the staff case conferences, the monthly psychosomatic conference, and the conferences on neuropsychiatric disorders of childhood. Emphasis is placed upon the close relationship of psychiatry to other branches of medicine. Internships are available in neuropsychiatry with the expectation that they will lead to progressively greater interest in the neuropsychiatric problems encountered on all other services in the Hospital. Investigation is encouraged.

Surgery

- DERYL HART, *Professor of Surgery.*
 *C. E. GARDNER, JR., *Associate Professor of Surgery.*
 J. W. BEARD, *Associate Professor of Surgery in Charge of Experimental Surgery.*
 *BARNES WOODHALL, *Assistant Professor of Surgery in Charge of Neurosurgery.*
 K. LER. PICKRELL, *Associate in Surgery.*
 H. M. SCHIEBEL, *Instructor in Surgery.*
 G. R. COOPER, *Research Associate in Experimental Surgery.*
 D. G. SHARP, *Research Associate in Experimental Surgery.*
 A. R. TAYLOR, *Research Associate in Surgery.*
 DOROTHY W. BEARD, *Research Assistant in Experimental Surgery.*
 W. B. ANDERSON, *Associate Professor of Surgery in Charge of Ophthalmology.*
 W. W. EAGLE, *Associate Professor of Surgery in Charge of Otolaryngology.*
 G. B. FERGUSON, *Associate in Bronchoscopy.*

* On active duty; U. S. Army.

† On leave of absence.

L. D. BAKER, *Associate Professor of Surgery in Charge of Orthopaedics.*
 R. B. RANEY, *Associate in Orthopaedics.*
 W. M. ROBERTS, *Lecturer in Orthopaedics.*
 H. H. KUHN, *Instructor in Orthopaedics.*
 E. P. ALYEA, *Clinical Professor of Urology.*
 J. E. DEES, *Assistant Professor of Urology.*
 K. S. GRIMSON, *Associate in Surgery.*
 G. L. ODOM, *Associate in Neurosurgery.*
 F. K. STOCKER, *Associate in Ophthalmology.*
 *L. C. ROBERTS, *Instructor in Urology.*
 T. W. ATWOOD, *Associate in Dentistry.*
 *N. F. ROSS, *Instructor in Dentistry.*
 *L. M. EDWARDS, JR., *Assistant in Dentistry.*
 D. L. LOVELL, *Instructor in Surgery.*
 J. C. TRENT, *Instructor in Surgery.*
 D. A. WILSON, *Instructor in Surgery.*
 W. M. EAGLES, *Assistant in Surgery.*
 G. B. HODGE, *Assistant in Surgery.*
 R. J. SIMMONS, *Assistant in Surgery.*
 R. F. HEIMBURGER, *Assistant in Surgery.*
 W. W. SHINGLETON, *Assistant in Surgery.*
 J. J. ZAVERNIK, *Assistant in Surgery.*
 J. W. CAMPBELL, *Technical Assistant in Surgery.*
 FRIDRIK KRISTOFERSSON, *Fellow in Neurosurgery.*
 H. J. SCHAUBEL, *Instructor in Orthopaedics.*
 K. R. THOMPSON, JR., *Assistant in Orthopaedics.*
 P. R. MASSENGILL, *Instructor in Otolaryngology and Ophthalmology.*
 A. N. COSTNER, *Assistant in Otolaryngology and Ophthalmology.*
 A. DAVIDSON, *Assistant in Otolaryngology and Ophthalmology.*
 C. C. DOUGLASS, *Fellow in Otolaryngology and Ophthalmology.*
 MARGARET WILSON, *Assistant in Otolaryngology and Ophthalmology.*
 J. A. DAVIDSON, *Instructor in Urology.*
 V. A. POLITANO, *Assistant in Urology.*
 C. E. RICHARDS, JR., *Assistant in Urology.*
 W. E. MATTHEWS, *Fellow in Urology.*
 ENRRIQUE MONTERO, *Fellow in Medicine.*
 I. W. MCLEAN, *Research Fellow in Virus Diseases.*
 J. W. CAMPBELL, *Technical Assistant in Surgery.*

General Surgery. In the sixth quarter the second-year students, during their course in physical diagnosis, attend clinics and demonstrations arranged to familiarize them with the techniques of examinations and the diagnostic procedures used in general surgery and the surgical specialties. Emphasis is placed on the more practical and commonly used methods.

During the last six quarters at 11:30 A.M. on Tuesdays and Fridays and at 9:30 A.M. on Saturdays, clinics in surgery and the surgical specialties are held for junior and senior students. The *junior* students, during their surgical quarter, attend ward rounds in surgery from 8:30 to 10:30 A.M. on Mondays, Wednesdays, and Fridays, act as clinical clerks on the wards, assist in the operative treatment of patients assigned to them, and attend the regular clinics on Tuesday and Thursday afternoons. They obtain experience in anesthesia and operative surgery on animals with emphasis placed on general surgical principles. The surgical students in the *senior* year attend ward rounds from 8:30 to 11:30 A.M. on Mondays,

* On active duty; U. S. Army.

Wednesdays, and Fridays, all the regular clinics, and assist in the surgical dispensaries in the afternoon. Also in groups of two for the proportionate time available they are assigned to the emergency division of the Out Patient Department where they assist in the diagnosis and care of urgent conditions, and to the anesthesia division where they obtain instruction and practical experience in anesthesia. Individuals may take any of the electives offered.

A six days concentrated course of training in the administration of anesthesia is open to twenty-four medical students each school quarter. Properly qualified students observe and administer anesthesia under direct supervision of staff anesthetists.

Otolaryngological Division. An introductory course of instruction in the use of otolaryngological instruments, with a review of normal anatomy, is given to second-year students in the sixth quarter. Clinics on Fridays at 11:30 A.M. during the sixth quarter are given to junior and senior students; junior students during their obstetric quarter spend two afternoons for five and one-half weeks in the otolaryngological dispensary. There are no formal otolaryngological ward rounds, but junior and senior students are assigned to patients during the surgical quarter, and group teaching on clinical cases is held at 10:30 A.M. each Wednesday during this quarter. Individual instruction is given the student by the various members of the Staff. Each quarter an elective course in ear, nose, and throat is given. This course includes anatomy; physiology; diseases of ear, nose, and throat; x-ray interpretation; and the use of diagnostic instruments.

Ophthalmological Division. During the sixth quarter second-year students receive instruction in elementary ophthalmology. During the senior pediatric quarter the students work in the ophthalmological clinic as assigned, and assist in the study and treatment of eye diseases. Especial emphasis is placed on the underlying medical and surgical conditions. Each student follows throughout his time in the clinic all patients assigned to him. For those who manifest an unusual interest in this specialty, provision will be made for more advanced work. Throughout the senior surgical quarter the students attend ophthalmological ward rounds for one hour each week, and during each academic year three clinics covering the more general neuro-ophthalmological and medical problems are given to all third- and fourth-year students.

Orthopaedic Division. In the sixth quarter an introductory course is given. During the surgical quarters the junior and senior students attend orthopaedic ward rounds at 9:30 A.M. on Mondays and attend fracture ward rounds at 9:30 A.M. on Fridays. Amphitheater clinics are held one quarter each nine months at 11:30 A.M. on Fridays for juniors and seniors. Students in their senior surgical quarter are assigned in rotation to the orthopaedic dispensary, which is held each afternoon from Monday to Friday, inclusive; these students attend general ward rounds with the orthopaedic staff at 9:30 A.M. on Wednesdays and may attend Journal Club meeting, x-ray conference, and general ward rounds with the Staff from 10:00 A.M. to 1:00 P.M. on Sundays. An elective course

in the treatment of fractures is offered during the junior and senior surgical quarters. In this course the students get practical training in the reduction of fractures, the application of plaster of Paris casts, and in the follow-up treatment of fractures. Elective courses in physical therapy and in the care of cerebral palsy patients are offered to the junior and senior students. The latter elective is given at 813 Fifth Street, where the Orthopaedic Division conducts a special clinic for the treatment of cerebral palsy. The clinic has a bed capacity of twelve and is staffed with a specially trained physiotherapist, a schoolteacher, and an administrative officer. The clinic is open at any time to interested students. Arrangements may be made for students who wish to do research or experimental work. Students are given the opportunity of attending the North Carolina Orthopaedic Hospital Clinic at Goldsboro the third Thursday of each month. They may also attend similar clinics held in Lumberton the first Friday of each month, in Elizabeth City the last Tuesday of each month, and in Tarboro the Monday before the last Tuesday of each month. By special arrangement with the curriculum committee senior students in the surgical quarter may by application do substitute intern work at the North Carolina Orthopaedic Hospital in Gastonia.

Urologic Division. In the sixth quarter, second-year students are given a course of lectures and practical demonstrations in urologic physical diagnosis in the normal individual student. Ward rounds on urologic patients are given every Saturday at 8:30 A.M., throughout the year, which junior students in their surgical quarter, and the senior surgical group are required to attend. During each quarter, small groups are selected from the senior surgical group of students and assigned in rotation to the urologic dispensary every afternoon. Here, under proper supervision, they study patients and give recommended treatment. During one and a third quarters of the year urologic clinics are given on Fridays at 11:30 A.M. for the junior and senior classes. These clinics deal with the affections of the male and female urinary tract and of the male genital tract. Clinics for urethroscopic and cystoscopic investigation and for the more technical methods of urologic diagnosis and treatment are held Monday, Wednesday, and Thursday from 1:30 to 5:00 P.M. and Tuesdays and Thursdays from 9:30 A.M. to 12:30 P.M. throughout the year. X-ray conferences on all urologic cases are held Tuesday, Thursday, and Saturday mornings from 8:30 to 9:30 and are followed by Staff rounds. Three senior students may select one of these cystoscopic clinics, x-ray conferences, and Staff rounds as an elective. *The Urologic Journal Club* meets each Monday from 4:30 to 6:30 P.M., and members of the Staff review their respectively assigned journals. Interested students are welcome.

Neurosurgical Division. Throughout the year at 11:30 A.M., on every third Tuesday, neurosurgical clinics are held for junior and senior students, at which the general principles of neurosurgical diagnosis and treatment are discussed. During all four quarters, weekly ward rounds are held at 8:30 A.M. on Fridays for the senior surgical group. Emphasis in these smaller clinics is placed upon the recognition of neuro-

surgical problems, followed by observation of the operative and post-operative procedures. Weekly x-ray and pathological conferences are held, and these may be attended by interested individuals.

Division of Plastic Surgery. Throughout the academic year, at 10:30 each Wednesday morning, a series of ward rounds is given to familiarize both third- and fourth-year students with the principles and practice of Plastic and Oral Surgery. These fundamental lectures are supplemented with Kodachrome movies, demonstrating single and multiple staged operative procedures. Pre- and postoperative patients are shown, and their reconstruction or cosmetic problems are discussed. Since most plastic surgical dressings require scrupulous sterile technique, a list of dressings is posted in the operating room each day. These daily dressing periods provide the student with an opportunity to observe the progress of his patient and at the same time to learn the technique of many types of dressings, purposeful splinting, etc., which are explained and demonstrated. They also provide an excellent opportunity to see many types of skin grafts: direct transfer grafts, delayed single and double pedicle flaps and tubes, etc., during the various stages of plastic reconstruction.

Each Tuesday and Thursday afternoon, an opportunity is afforded interested students to observe moulage and cast work, cosmetic restoration of color, the making of prosthetic appliances, etc. This work is done under the direction of Mr. Elon H. Clark and Mr. Orville A. Parkes, of the Department of Medical Illustration.

Dentistry. Second-year students, in the sixth quarter, are instructed in the principles of dentistry.

Radiology

R. J. REEVES, *Clinical Professor of Radiology.*

G. J. BAYLIN, *Assistant Professor of Radiology and Instructor in Anatomy.*

C. C. PEARCE, *Associate in Radiology.*

L. B. WATERS, JR., *Instructor in Radiology.*

J. C. GLENN, JR., *Assistant in Radiology.*

J. M. RODDA, *Assistant in Radiology.*

J. B. CAHOON, JR., *Instructor in Radiology Technique.*

The student teaching schedule in roentgenology consists of a course in roentgen diagnosis and a course in therapeutic radiology. The first is offered during each scholastic quarter on Tuesday and Thursday of each week. The fundamental physics of x-ray is discussed, with the chief emphasis being placed upon the anatomical, pathological and physiological bases for the interpretation of x-ray films. The course is conducted in seminar fashion and no formal lectures are given. The students are made to participate and lead discussions with the instructor serving as the moderator. The attempt is made to acquaint the student with the aids of roentgenology in diagnostic problems. The correct use of x-rays in diagnosis is stressed.

Therapeutic radiology is given one hour weekly during each scholastic quarter. At these sessions the general problem of treatment of benign, inflammatory and malignant lesions by x-ray and radium is discussed and the accepted views of the combination of these therapeutic agents with

surgery is stressed. Representative cases are demonstrated and follow-up results are shown. The follow-up results are particularly stressed.

A limited number of senior students are permitted to attend routine film reading sessions in the department of radiology. They are also instructed in the fundamentals of fluoroscopic examinations or rather shown the many pitfalls of the inexperienced fluoroscopist.

A number of conferences with the resident house staff are conducted throughout the year. Each alternate Monday at 8:30 to 9:30 A.M. a session with the ear, nose and throat staff is held, during which the roentgen and operative findings are correlated. Each Thursday from 8:30 to 9:30 A.M. a pediatric conference is held where current cases are discussed and clinical and x-ray findings are given. On alternate Wednesdays from 5:00 to 6:00 P.M. conferences are held with the surgical and medical house staffs and all cases with significant x-rays are presented for general discussion. The neurosurgical staff meets with members of the x-ray department every other Tuesday afternoon from 4:00 to 5:00 P.M. for a discussion of all cases that have been studied by the two departments.

Each Thursday afternoon the conference is held by the members of the x-ray staff and visiting radiologists. Difficult cases are brought up for discussion and diagnosis.

Obstetrics and Gynecology

BAYARD CARTER, *Professor of Obstetrics and Gynecology.*

E. C. HAMBLIN, *Associate Professor of Obstetrics, Gynecology, and Clinical Professor of Endocrinology.*

*R. A. ROSS, *Associate Professor of Obstetrics and Gynecology.*

†W. L. THOMAS, JR., *Assistant Professor of Obstetrics and Gynecology.*

M. PIERCE RUCKER, *Lecturer in Obstetrics and Gynecology.*

E. B. EASLEY, *Associate in Obstetrics and Gynecology.*

R. L. ALTER, *Instructor in Obstetrics and Gynecology.*

W. A. GRAHAM, *Instructor in Obstetrics and Gynecology.*

V. H. TURNER, *Instructor in Obstetrics and Gynecology.*

L. E. GORDON, JR., *Assistant in Obstetrics and Gynecology.*

E. J. GREGORY, *Assistant in Obstetrics and Gynecology.*

J. M. INGRAM, *Assistant in Obstetrics and Gynecology.*

CLARENCE D. DAVIS, *Instructor in Endocrine Division, Obstetrics and Gynecology.*

W. K. CUYLER, *Research Instructor, Endocrine Division, Obstetrics and Gynecology.*

EUSEBIO VILLAMAYOR, *Fellow in Obstetrics and Gynecology.*

FLORENCE KELLER, *Fellow in Endocrinology.*

JUAN ZANARTU, *Fellow in Endocrinology.*

C. P. JONES, *Bacteriologist in Obstetrics and Gynecology.*

Second-year students receive seventeen hours of instruction in the fundamentals of obstetrics and gynecology during their course in physical diagnosis in the sixth quarter. Clinics and demonstrations for junior and senior students are held on Saturdays at 10:30 A.M. during the Autumn, Winter, and Spring Quarters and on Mondays at 11:30 A.M. in

* On active duty; U. S. Navy.

† On active duty; U. S. Army.

the Summer Quarters. During one quarter of the *junior* year each group of students attends ward rounds at 8:30 A.M. on Mondays, Wednesdays, and Saturdays, preoperative conferences at 8:30 A.M. on Tuesdays and Fridays, and the Public Dispensary at 1:30 P.M. three times weekly, for eleven weeks. They also attend an endocrine clinic once a week for eleven weeks during the *junior* year. The students also spend part of each day on the wards. *Senior* students, during their surgical quarter, have ward rounds on obstetrics and gynecology on Saturdays at 8:30 A.M. Each *senior* student, during his senior surgical quarter, spends one week on the delivery floor.

Elective courses in the diagnosis and treatment of obstetric and gynecological conditions are offered for *junior* and *senior* students.

Pediatrics

- W. C. DAVISON, *Professor of Pediatrics.*
 J. M. ARENA, *Assistant Professor of Pediatrics.*
 *J. S. HARRIS, *Assistant Professor of Pediatrics and Biochemistry.*
 ANGUS MCBRYDE, *Assistant Professor of Pediatrics.*
 A. H. LONDON, JR., *Associate in Pediatrics.*
 S. C. DEES, *Associate in Pediatrics.*
 J. D. CRAVEN, *Associate in Pediatrics.*
 M. J. CARSON, *Instructor in Pediatrics.*
 A. T. S. DAVISON, *Assistant in Pediatrics.*
 G. O. BOUCHER, *Assistant in Pediatrics.*
 L. M. BASHINSKY, JR., *Assistant in Pediatrics.*
 EUGENE CALLAWAY, JR., *Assistant in Pediatrics.*
 E. P. JONES, *Assistant in Pediatrics.*
 K. M. OLIVER, *Assistant in Pediatrics.*
 GUSTAVO ROSS, *Assistant in Pediatrics.*
 M. C. SMITH, *Assistant in Pediatrics.*
 MILDRED M. SHERWOOD, *Supervisor of Pediatric Nursing.*
 LOLA E. PAGE, *Supervisor of Premature Nursery.*
 A. M. AGUAYO, *Fellow in Pediatrics.*

Each *second-year* student receives nine hours of instruction in elementary pediatrics during the course in physical diagnosis in the sixth quarter. *Junior* and *senior* students, during their medical quarters, have pediatric ward rounds on Saturdays, from 8:30 to 9:30 A.M. The *senior* students are divided into three groups, each of which spends one quarter in pediatrics. During this quarter they are assigned daily as clinical clerks on the children's ward, nursery, and pediatric dispensary; attend ward rounds at 8:30 A.M. Wednesdays and Fridays and 9:30 A.M. on Mondays; are instructed in the practical nursing of infants by Miss Sherwood on Fridays at 9:30 A.M.; and are taught the preparation of diets for infants and children by the Professor of Dietetics. Each student attends infant feeding clinics on Fridays during this quarter. On Thursdays at 11:30 A.M., the *junior* and *senior* students attend demonstrations at which the preclinical basis, as well as the clinical aspects, of disease are emphasized. *Elective courses:* *senior* students may assist in the treatment of pediatric patients in the syphilis clinic on Thursdays at 9:00 A.M., do research work, or assist in the pediatric ward or dispensary one or more mornings per week, according to the time at their disposal.

* On active duty; U. S. Army.

Legal Medicine and Toxicology

J. B. BRADWAY, *Professor of Law.*

T. D. BRYSON, *Professor of Law.*

W. D. FORBUS, *Professor of Pathology.*

D. T. SMITH, *Professor of Bacteriology and Associate Professor of Medicine.*

H. M. TAYLOR, *Associate Professor of Biochemistry and Toxicology.*

This course embraces a discussion of the relation of physicians to legal criminal procedures, jurisdiction of the coroner and medical examiner, laws governing the dead human body, personal identity of the living and the dead, the medicolegal autopsy, traumatic injuries and fractures, rape, abortion, asphyxial death, homicidal, suicidal, and industrial poisoning, alcoholism, the examination of blood, stains, fibers, and the detection of malingering. The course is open to junior and senior students and is given in alternate years. Discussions of medicolegal problems for the house staff and senior students, and joint conferences of the medical and law students also are held.

Preventive Medicine and Public Health

D. F. MILAM, *Associate in Preventive Medicine and Public Health.*

W. P. RICHARDSON, *Associate in Preventive Medicine and Public Health.*

J. E. LARSH, JR., *Associate in Parasitology.*

W. J. DARBY, *Instructor in Preventive Medicine and Public Health.*

J. H. EPPERSON, *Instructor in Preventive Medicine and Public Health.*

S. H. HOPPER, *Instructor in Preventive Medicine and Public Health.*

W. B. SNOW, *Instructor in Preventive Medicine and Public Health.*

J. J. HANLON, *Lecturer in Preventive Medicine and Public Health.*

W. L. FLEMING, *Lecturer in Preventive Medicine and Public Health.*

J. J. WRIGHT, *Lecturer in Preventive Medicine and Public Health.*

M. J. ROSENAU, *Lecturer in Preventive Medicine and Public Health.*

L. A. LUBOW, *Lecturer in Preventive Medicine and Public Health.*

J. R. MALONE, *Lecturer in Preventive Medicine and Public Health.*

D. M. WILLIAMS, *Lecturer in Preventive Medicine and Public Health.*

Public Health and Hygiene. A lecture course is given in the second year to acquaint the students with general environmental sanitation including sewage disposal, water supplies, milk and food for rural and urban communities. Vital statistics, public health regulations, and various official public health organizations also are discussed. Exercises in the epidemiology of several diseases are introduced to give the student a broad view of disease and its prevention. *Field Demonstrations.* Visits for observation and instruction are made to state, county, and city health departments, infant and school hygiene clinics, dairies, public water supplies, sewage disposal plants, and industrial establishments. Seminars are held in which the students discuss the various problems encountered in their field experience. *Preventive Medicine.* A series of lectures and exercises is given during the senior year to provide students with the preventive point of view in the practice of medicine. The problems of infant and maternal hygiene, occupational diseases, the deficiency states, and the etiology, transmission, epidemiology and prevention of communicable diseases are considered. Emphasis is placed upon the relationship of the private practitioner of medicine to the public health program. *A Laboratory Course* given in the fourth quarter by the Department of Bac-

teriology consists of the identification and virulence testing of diphtheria cultures; the isolation of stool, throat, and blood organisms; the practical examination of water; Schick, Dick, and tuberculin tests; and vaccination against typhoid-paratyphoid fever and smallpox. *Elective*: Through the co-operation of several city and county health officers, students may spend one or more weeks in observing and assisting in the operation of these public health units. Senior students may elect one month's Fellowship in Public Health in Michigan offered by the Kellogg Foundation, if they have permission from the head of the department of the quarter concerned and make up the time afterward.

CURRICULUM OF THE SCHOOL OF MEDICINE

The usual four medical school years of thirty-three weeks each have been accelerated during the war into three calendar years of forty-eight weeks each.

Every effort is made to emphasize the close relationship of preclinical and clinical instruction. Members of the Clinical Staff assist in the teaching of preclinical subjects, and demonstrate to the students of the first two years, patients whose conditions illustrate the subjects being taught. Thus, from the student's first days, he is impressed with the interdependence of all branches of the medical science. In the junior and senior years, preclinical instructors assist the Clinical Staff in presenting the underlying basis of disease.

The free time in this curriculum may be spent in elective work or anything else the student wishes to do. No credits are given, but opportunity is provided for each student on his own initiative to obtain additional training which he may feel to be necessary or desirable. Elective courses have been organized for small groups, or the time may be utilized in independent work (including research) in any department, clinical or preclinical. Arrangements for taking such courses or doing other work are to be made through the Curriculum Committee.

It is hoped that many students will migrate to other medical schools for one or more quarters. Those who wish to do so, or to substitute a program different from that listed below, must obtain permission in advance from the Curriculum Committee.

CURRICULUM OF FOUR QUARTERS OF TWELVE WEEKS EACH

(The hours for these courses will be posted on the bulletin board.)

FIRST YEAR

FIRST SEMESTER:	HOURS
October 2, 1944 to February 10, 1945.	
Anatomy (including histology and neuroanatomy)	702
SECOND SEMESTER:	
February 19 to June 23, 1945.	
Physiology and Elementary Pharmacology	396
Biochemistry	279
Psychobiology	12
Free time	15

SECOND YEAR

SUMMER QUARTER (4th) :

July 2 to September 22, 1945.

Pathology	216
Bacteriology and Parasitology	164
Free time	88

AUTUMN QUARTER (5th) :

October 1 to December 22, 1945.

Pathology	200
Clinical microscopy	120
Public health and hygiene*	48
Free time	100

WINTER QUARTER (6th) :

January 2 to March 23, 1946.

Physical diagnosis and introduction to clinical medicine	282
Advanced Pharmacology	72
Free time	114

JUNIOR YEAR

SPRING QUARTER (7th) :†

April 1 to June 22, 1946.

Medicine (Junior)	468
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SUMMER QUARTER (8th) :†

July 1 to September 21, 1946.

Surgery (Junior)	468
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AUTUMN QUARTER (9th) :†

September 30 to December 21, 1946.

Obstetrics and Gynecology (Junior)	384
Neuropsychiatry	84

SENIOR YEAR

WINTER QUARTER (10th) :†

January 2 to March 24, 1947.

Medicine (Senior)	468
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SPRING QUARTER (11th) :†

April 1 to June 23, 1947.

Surgery (Senior), including urology and orthopaedics	336
Obstetrics	132

SUMMER QUARTER (12th) :†

July 1 to September 22, 1947.

Pediatrics	209
Surgery	45
Final clinical examinations	24
Preventive medicine*	24
Neuropsychiatry	45
Free time	121

SUMMARY

Total number of hours in curriculum	5,616
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* In 1944 these courses will be given during the Autumn quarter.

† The clinical instruction is repeated each quarter in order to utilize all the clinical material and to have small groups of students. Consequently, students may vary the order of the seventh, eighth, and ninth quarters, and also the order of the tenth, eleventh, and twelfth quarters. The above schedule merely illustrates the program of one group.

FEES AND EXPENSES

All fees for each quarter are due and payable at the beginning of each quarter, and no student will be admitted to classes until these fees have been paid at the University Treasurer's Office. A fine of \$5.00 is charged for late registration. No credit will be given for any quarter in which the tuition of \$150 has not been paid at the Treasurer's Office, whether the work has been done here or elsewhere, except that students who have been permitted by the Curriculum Committee to spend a quarter at another medical school or hospital may subtract the amount of tuition paid at this other medical school or hospital from the \$150 due here for that quarter.

It is not advisable for a student to attempt outside work to defray his expenses; the results usually are disastrous to his health and academic standing.

Fees and Expenses

Tuition, per quarter	\$150
Health Fee, per quarter	3.33
Athletic Fee, admitting student to all athletic contests held on the University campus, during the quarter	5
Room-rent, per quarter* (estimated)	50
Board, per quarter (estimated)	95
Laundry, per quarter (estimated)	10 to 20
Books, per quarter (estimated)	25 to 50
Commencement and Diploma Fees†	8
National Board of Medical Examiners Fees† \$25 (Part I), \$20 (Part II)	
Microscope, ophthalmoscope, otoscope, and other equipment, which are required of each student and which must conform to rigid standards, may be obtained on a rental basis from the University	25 to 35
Estimated total expenses, per month	135 to 150

ANGIER B. DUKE MEMORIAL AND OTHER LOAN FUNDS

The Angier B. Duke Memorial, Incorporated, administers through an advisory committee of the officers of the University a loan fund for students. In addition, the loan fund of the W. K. Kellogg Foundation is available for students who are not financially able to meet their expenses. Medical students, after their third quarter, who are ineligible for military service, may apply for loans from these sources. No scholarships are awarded in the School of Medicine. The loan funds are administered in accordance with the following regulations:

1. No loan will be made to a student who violates any of the regulations of the University or who is not doing outstanding classwork.

* Rooms may be reserved by medical students in Few Quadrangle. These rooms are provided with furniture, heat, electric light, and care of rooms; each student furnishes his own blankets, sheets, pillow-slips, towels, and pillows. Applications for rooms, accompanied by a reservation fee of \$25, should be made by writing to Mr. W. E. Whitford, Duke University, Durham, N. C.

† Payable at the beginning of the quarter in which a student is eligible for a degree or examination.

2. Loans will be made only to students who are taking full courses of study that lead to a degree, and all loans must be arranged not later than one week after the beginning of a quarter.

3. Every applicant for a loan must present with the application such security as the President of the University may approve, and no money will be advanced before a note with approved security is in the hands of the Treasurer of the University.

SCHOOL OF MEDICINE STUDENTS

	<i>First-Year</i>	<i>Second-Year</i>	<i>Junior-Year</i>	<i>Senior-Year</i>	<i>Total</i>	<i>1932-1944 Graduates</i>
Students	75	72	72	77	296	701

FIRST-YEAR STUDENTS (OCTOBER 2, 1944-JUNE 23, 1945)

<i>Name and Preparation</i>	<i>Home Address</i>
George Reid Andrews..... <i>Dartmouth College;</i> <i>Yale University;</i> <i>Duke University.</i>	Mt. Gilead, N. C.
James S. Arnold..... <i>Duke University.</i>	Chicago, Ill.
Dorothy Steenberg Asbury..... <i>Stephens College;</i> <i>West Virginia University;</i> <i>Marshall College.</i>	Huntington, W. Va.
John Rainey Ashe, Jr..... <i>The Citadel;</i> <i>Davidson College.</i>	Charlotte, N. C.
Graham Arthur Barden, Jr. (N)..... <i>Virginia Military Institute;</i> <i>Duke University.</i>	New Bern, N. C.
Robert Henry Barnes..... <i>Union College.</i>	Cooperstown, N. Y.
Wilmer Conrad Betts (N)..... <i>Duke University.</i>	Raleigh, N. C.
John Vernon Blalock..... <i>Duke University.</i>	Durham, N. C.
Donald Dean Carter (N)..... <i>Duke University.</i>	Erwin, Tenn.
Gordon Malone Carver, Jr. (N)..... <i>Duke University.</i>	Durham, N. C.
Warren James Collins..... <i>Duke University.</i>	Savannah, Ga.
Ross Bache Cone..... <i>Oberlin College.</i>	New York, N. Y.
Herbert Lucien Corse..... <i>Princeton University.</i>	Jacksonville, Fla.
William John Amsterdam DeMaria..... <i>University of Connecticut.</i>	Westport, Conn.
Marcus Lunsford Dillon, Jr. (O)..... <i>Duke University.</i>	Lewisburg, W. Va.
Bruce Hugh Dorman (N)..... <i>Duke University.</i>	Plainfield, N. J.
Dante John Feriozi (N)..... <i>Georgetown University;</i> <i>Duke University.</i>	Washington, D. C.
Harry Gustav Fish, Jr..... <i>Duke University.</i>	Pennsgrove, N. J.
Robert Ross Fisher..... <i>Duke University.</i>	Youngstown, Ohio

(A) Indicates Private First Class in the Army Specialized Training Program. (O) Indicates Officer's Reserve Corps. (N) Indicates Apprentice Seaman in the Navy V-12(S) Program. (U) Indicates commission as Assistant Surgeon in the U.S.P.H.S. Reserve. (V) Indicates commission as Ensign H-V(P), U.S.N.R. (M) Indicates commission as Second Lieutenant, Medical Administration Corps, A.U.S.

<i>Name and Preparation</i>	<i>Home Address</i>
Lucius Gaston Gage, Jr..... <i>Duke University.</i>	Charlotte, N. C.
Howard William Gillen (N)..... <i>Duke University.</i>	Glen Rock, N. J.
Robert Averill Gowdy..... <i>Davidson College;</i> <i>University of Minnesota;</i> <i>Duke University.</i>	W. Los Angeles, Calif.
M. Edwin Green, Jr..... <i>Princeton University.</i>	Lemoyne, Pa.
Charles Groshon Gunn, Jr. (N)..... <i>Davidson College;</i> <i>Duke University.</i>	Bluefield, W. Va.
William Pullen Hadley (N)..... <i>University of Florida.</i>	Gainesville, Fla.
William Clifford Haggerty (N)..... <i>Duke University.</i>	Lakewood, Ohio
Louis Harris..... <i>Columbia College.</i>	Paterson, N. J.
James Graham Harrison, Jr..... <i>The Citadel;</i> <i>Duke University.</i>	Mount Airy, N. C.
John Hopewell Hebb (N)..... <i>Duke University.</i>	Baltimore, Md.
Howard Egbert Herring, Jr. (N)..... <i>Duke University.</i>	Wilson, N. C.
James William Hollingsworth..... <i>Duke University.</i>	Mt. Airy, N. C.
Constance Alice Huntley..... <i>Duke University;</i> <i>Marietta College.</i>	Durham, N. C.
Albert P. Isenhour, Jr..... <i>Vanderbilt University.</i>	Nashville, Tenn.
Henry LeRoy Izlar, Jr. (N)..... <i>Duke University.</i>	Winston-Salem, N. C.
Jerome Milton Javer..... <i>Duke University.</i>	Brooklyn, N. Y.
W. Thomas Jay, Jr..... <i>Duke University.</i>	Bradford, Pa.
James Patton Johnson, Jr. (N)..... <i>Duke University.</i>	Lakeland, Fla.
Harry John Kalevas..... <i>Duke University.</i>	Rockingham, N. C.
James Ellis Kicklighter (N)..... <i>Davidson College;</i> <i>Duke University.</i>	Sarasota, Fla.
William Lies, III..... <i>Duke University.</i>	Coleman, Ga.
Eugene Joseph Linberg..... <i>Duke University.</i>	Carney's Point, N. J.
John Terrell Logue, Jr. (A)..... <i>Duke University;</i> <i>University of Wisconsin.</i>	Orange, N. J.
Robert Frederick Lorenzen..... <i>Duke University.</i>	Toledo, Ohio

(A) Indicates Private First Class in the Army Specialized Training Program. (O) Indicates Officer's Reserve Corps. (N) Indicates Apprentice Seaman in the Navy V-12(S) Program. (U) Indicates commission as Assistant Surgeon in the U.S.P.H.S. Reserve. (V) Indicates commission as Ensign H-V(P), U.S.N.R. (M) Indicates commission as Second Lieutenant, Medical Administration Corps, A.U.S.

<i>Name and Preparation</i>	<i>Home Address</i>
Donald Vincent Mahony (N)..... <i>Calvert Hall College; Duke University.</i>	Sparks, Md.
Joseph Howard McAlister..... <i>Duke University.</i>	Caruthersville, Mo.
Ruth Reade McDonald..... <i>Duke University.</i>	Durham, N. C.
Theodore Jackson McGee, Jr..... <i>The Citadel.</i>	Columbus, Ga.
Wilson Parks McKittrick..... <i>Presbyterian College.</i>	Whitmire, S. C.
Harry Thurman McPherson..... <i>Duke University.</i>	Morgantown, W. Va.
Thomas Peter McWilliams..... <i>Duke University.</i>	Scranton, Pa.
Jane Merrill..... <i>University of Ala.</i>	Woodward, Ala.
Berry Bryant Monroe (N)..... <i>Davidson College.</i>	Laurinburg, N. C.
John Crawford Muller..... <i>The Citadel.</i>	Dillon, S. C.
Calvin Russell O'Kane..... <i>Duke University.</i>	Columbus, Ohio
John Council Parker (N)..... <i>Virginia Episcopal School; University of North Carolina.</i>	Farmville, N. C.
Jack Guyes Robbins (A)..... <i>Duke University.</i>	Durham, N. C.
Paul Mark Sarazen, Jr. (N)..... <i>Duke University.</i>	White Plains, N. Y.
Hugh Key Sealy, Jr..... <i>Emory University.</i>	Reynolds, Ga.
Robert John Sheridan..... <i>Duke University.</i>	Wehawken, N. J.
Alfred Jay Sherman (N)..... <i>Duke University.</i>	Harrisburg, Pa.
Norman Jay Silver..... <i>Duke University.</i>	New York, N. Y.
Zachary Arnold Simpson..... <i>Duke University.</i>	Charlotte, N. C.
Robert Marshall Sinskey (N)..... <i>Washington and Lee University; Duke University.</i>	Baltimore, Md.
Chandler Sparkman Smith (N)..... <i>Duke University.</i>	Robersonville, N. C.
Lucius Stone Smith (N)..... <i>Washington and Lee University; Duke University.</i>	Rome, Ga.
George Edward Staehle (N)..... <i>Princeton University.</i>	Newark, N. J.
Bernard William Strone (N)..... <i>Duke University.</i>	Perth Amboy, N. J.
Robert Hamilton Thayer (N)..... <i>Phillips Exeter Academy; Yale University.</i>	Seattle, Wash.

(A) Indicates Private First Class in the Army Specialized Training Program. (O) Indicates Officer's Reserve Corps. (N) Indicates Apprentice Seaman in the Navy V-12(S) Program. (U) Indicates commission as Assistant Surgeon in the U.S.P.H.S. Reserve. (V) Indicates commission as Ensign H-V(P), U.S.N.R. (M) Indicates commission as Second Lieutenant, Medical Administration Corps, A.U.S.

<i>Name and Preparation</i>	<i>Home Address</i>
James Cain Vardell, Jr. (N)..... <i>University of the South.</i>	Moncks Corner, S. C.
Lonnie Austine Waggoner, Jr..... <i>Duke University.</i>	Charlotte, N. C.
Isom Clements Walker, Jr..... <i>Duke University.</i>	Woodland, Ga.
Robert Marion Wilhoit..... <i>Wake Forest College.</i>	Troy, N. C.
Robert Walter Willett (N)..... <i>Duke University.</i>	New York, N. Y.
Benjamin Hairston Williamson..... <i>Davidson College.</i>	Mt. Airy, N. C.
William Glenn Young, Jr. (N)..... <i>Duke University.</i>	Washington, D. C.

SECOND-YEAR STUDENTS (OCTOBER 2, 1944-JUNE 23, 1945)

Samuel Sheridan Ambrose, Jr. (N)..... <i>Duke University.</i>	Jacksonville, N. C.
Charles Claiborne Blackwell, Jr. (M)..... <i>University of Virginia;</i> <i>Washington and Lee University;</i> <i>Northwestern University.</i>	Wilmette, Ill.
Ben Vaughan Branscomb (N)..... <i>Duke University.</i>	Durham, N. C.
William Lester Brooks, Jr. (N)..... <i>Princeton University.</i>	Charlotte, N. C.
James Robert Browning (N)..... <i>Duke University.</i>	Windber, Pa.
John Ralph Burgess, Jr. (A)..... <i>Montana State University.</i>	Missoula, Mont.
James Ryan Chandler (A)..... <i>Duke University.</i>	Daytona Beach, Fla.
Thomas Carlaw Clifford (A)..... <i>Yale University.</i>	Shipman, Va.
Raphael Woodward Coonrad (N)..... <i>Davidson College.</i>	Evans City, Pa.
Henry Hitt Crane, Jr..... <i>Duke University.</i>	Detroit, Mich.
Thomas Barker Dameron, Jr. (N)..... <i>The Citadel;</i> <i>Duke University;</i> <i>University of North Carolina.</i>	Goldsboro, N. C.
James Charles Dawson, Jr. (A)..... <i>San Francisco Junior College;</i> <i>University of San Francisco.</i>	San Francisco, Calif.
Robert W. Farley, Jr. (A)..... <i>University of Michigan;</i> <i>Duke University.</i>	Bay City, Mich.
Blake Fawcett (N)..... <i>Duke University.</i>	Alderson, W. Va.
Tom Bruce Ferguson (A)..... <i>Duke University.</i>	Tulsa, Okla.
Paul Gardner Fillmore (A)..... <i>Brigham Young University.</i>	Provo, Utah

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<i>Name and Preparation</i>	<i>Home Address</i>
Herman Field Froeb (A)..... <i>Princeton University.</i>	Forest Hills, N. Y.
Joseph Platt Gutstadt (N)..... <i>University of Chicago; Duke University.</i>	Chicago, Ill.
Robert Slotterback Keller (N)..... <i>Duke University.</i>	Lavelle, Pa.
Dwight Talmadge Kernodle (A)..... <i>Elon College.</i>	Elon College, N. C.
William Arnold Lambeth, Jr. (N)..... <i>Duke University.</i>	Asheville, N. C.
Atala Jane Scudder Davison Levinthal..... <i>Barnard College; Duke University; Swarthmore College.</i>	Durham, N. C.
Robert Oscar Lipe (N)..... <i>Duke University.</i>	Albemarle, N. C.
Donald Stanley Littman (N)..... <i>Duke University.</i>	Sunnyside, L. I., N. Y.
Frank Henry Longino (N)..... <i>Duke University.</i>	Texarkana, Ark.
Ralph Taylor McCauley (A)..... <i>Virginia Polytechnic Institute.</i>	Roderfield, W. Va.
John Marshall McCoy (N)..... <i>Erskine College.</i>	Charlotte, N. C.
Robert Ligon McWhorter, Jr. (N)..... <i>University of Georgia; Emory University.</i>	Athens, Ga.
Robert Pickens Marshall (N)..... <i>Duke University.</i>	Washington, D. C.
John Edward Masterson (A)..... <i>Adelbert College of Western Reserve University.</i>	University Heights, Ohio
William Thomas Mayer (A)..... <i>Adelbert College of Western Reserve University.</i>	Shelby, Ohio
Loren Valmore Miller (N)..... <i>Concordia Collegiate Institute; Duke University.</i>	Yonkers, N. Y.
John Robert Morris (N)..... <i>Duke University.</i>	Youngstown, Ohio
Donald Robertson Mundie (N)..... <i>Duke University.</i>	Kenmore, N. Y.
William Parry Murphy, Jr..... <i>Harvard College.</i>	Brookline, Mass.
Henry Hale Nicholson, Jr. (A)..... <i>Duke University.</i>	Statesville, N. C.
Sherman Homer Pace (N)..... <i>Duke University.</i>	St. Petersburg, Fla.
Grover Smith Patterson (N)..... <i>Catawba College.</i>	Kannapolis, N. C.
Robert Franklin Poole, Jr. (A)..... <i>The Clemson Agricultural College.</i>	Clemson, S. C.
Rhea Sutphen Preston (A)..... <i>Davidson College.</i>	Pontotoc, Miss.
William Watkins Pryor (A)..... <i>Wake Forest College.</i>	Oxford, N. C.

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<i>Name and Preparation</i>	<i>Home Address</i>
Frederick Ramsay Ritzinger, Jr. (A) <i>University of Washington.</i>	St. Paul, Minn.
Harry Campbell Sammons (N) <i>Marietta College.</i>	Marietta, Ohio
Guy Phillip Sharpe, Jr. (N) <i>Tulane University; University of Colorado; Vanderbilt University.</i>	Tchula, Miss.
Kenneth Sihler Shepard (A) <i>Duke University.</i>	Chicago, Ill.
James Loughrey Smeltzer (N) <i>Western Reserve University; Duke University.</i>	Youngstown, Ohio
Ernest Wendell Smith (N) <i>Duke University.</i>	Charlotte, N. C.
Stuart Cameron Smith (A) <i>Duke University.</i>	Staten Island, N. Y.
Dorothy Dair Snyder	Dover, Ohio
LeRoy Everett Talcott, Jr. (N) <i>Princeton University.</i>	Hartford, Conn.
Allen Taylor (A) <i>Duke University.</i>	Greenville, N. C.
James Robert Teabeaut, II (A) <i>Duke University.</i>	Fayetteville, N. C.
Jack Lamkin Teasley (N) <i>Duke University.</i>	St. Albans, W. Va.
Robert Hicks Thompson (N) <i>Clemson College; Duke University.</i>	Dublin, Ga.
William West Thompson (A) <i>Wake Forest College; Duke University.</i>	Hallsboro, N. C.
Willis Herbert Thornburg (A) <i>Duke University.</i>	New York, N. Y.
Silas Owens Thorne, Jr. (N) <i>Duke University.</i>	Charlotte, N. C.
Frederick Cleverly Vogell (A) <i>Asbury College.</i>	Wilmore, Ky.
William Charles Wansker (M) <i>Duke University.</i>	Macon, Ga.
Joseph Major Ward (N) <i>University of North Carolina.</i>	Robersonville, N. C.
Norma Ware <i>Duke University.</i>	Macon, Ga.
Harry Leon Wechsler (N) <i>Duke University.</i>	McKeesport, Pa.
Milton Weinberg, Jr. (N) <i>Duke University.</i>	Sumter, S. C.
Robert Cooper Welsh (N) <i>Duke University.</i>	Miami, Fla.
David Craig White (A) <i>Duke University.</i>	Englewood, N. J.
Lawrence Jack Wilchins (A) <i>Duke University.</i>	Cincinnati, Ohio

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<i>Name and Preparation</i>	<i>Home Address</i>
Roger Davis Williams (A)..... <i>Duke University.</i>	Charlotte, N. C.
Leo Hughes Wilson, Jr. (N)..... <i>University of Florida; Duke University.</i>	Bradenton, Fla.
William Preston Wilson (A)..... <i>Campbell Junior College; Duke University.</i>	Durham, N. C.
John Lemuel Wooten (A)..... <i>Duke University.</i>	Greenville, N. C.
Richard Nickles Wrenn (N)..... <i>Duke University.</i>	Anderson, S. C.
John Engler Zelif, Jr. (N)..... <i>Pennsylvania State College; Duke University.</i>	Youngsville, Pa.

JUNIOR STUDENTS (OCTOBER 2, 1944-JUNE 23, 1945)

Harry Sholar Allen, Jr. (A)..... <i>Davidson College.</i>	Florence, S. C.
Clarence Leonidas Anderson (A)..... <i>Davidson College.</i>	Tampa, Fla.
Reid Hogan Anderson (A)..... <i>State College of Washington.</i>	Pullman, Wash.
Robert Harper Anderson (A)..... <i>Duke University.</i>	Wilson, N. C.
Dorothy Clarke Armstrong..... <i>Port Arthur Collegiate; Tufts College.</i>	Port Arthur, Ontario, Canada
James Guernsey Bassett (A)..... <i>Port Huron Junior College; University of Michigan.</i>	Port Huron, Mich.
Ritchie Hugh Belser (A)..... <i>The Citadel.</i>	Columbia, S. C.
Alfred Seymour Berne (A)..... <i>Duke University.</i>	Woodhaven, N. Y.
Richard Titsworth Binford (U)..... <i>Guilford College; University of North Carolina.</i>	Marion, N. C.
Richard Calvin Bishop (N)..... <i>Duke University.</i>	St. Petersburg, Fla.
Alexander White Boone, Jr. (A)..... <i>Duke University.</i>	Pennsgrove, N. J.
William Richard Brink (A)..... <i>Williamsport Dickinson Junior College; Pennsylvania State College; Harvard University.</i>	Williamsport, Pa.
Thomas Ray Broadbent (A)..... <i>Brigham Young University.</i>	Heber, Utah
John Burton Bryan (N)..... <i>St. Petersburg Junior College; Duke University.</i>	St. Petersburg, Fla.
Frank Highsmith Campbell (N)..... <i>Duke University.</i>	Durham, N. C.
Ralph Ingersoll Cottle, Jr. (N)..... <i>Duke University.</i>	Warren, Ohio

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<i>Name and Preparation</i>	<i>Home Address</i>
Robert Edwin Crompton (A)..... <i>University of Toronto; University of Toronto Medical School, 1940-1942.</i>	Toronto, Ontario, Canada
John Murdoch Crowell (A)..... <i>University of Chattanooga.</i>	Chattanooga, Tenn.
Frank Willard Davis, Jr. (A)..... <i>Duke University.</i>	Biltmore, N. C.
John Wesley DeReamer (A)..... <i>Duke University.</i>	Morrisville, Pa.
Elaine G. Fichter..... <i>Maryville College.</i>	West Hazelton, Pa.
Zenas Waldo Ford, Jr. (A)..... <i>University of Arkansas.</i>	Fayetteville, Ark.
Saul Arnold Frankel (A)..... <i>Yale University.</i>	Woodmere, L. I., N. Y.
Walter Houseal Goggans (A)..... <i>Clemson College.</i>	Newberry, S. C.
James Boyd Golden (N)..... <i>Duke University.</i>	Greenfield, Mass.
Everett Richard Harrell, Jr. (N)..... <i>Ohio Wesleyan; Duke University.</i>	Birmingham, Mich.
Edward Gustavus Haskell, Jr. (N)..... <i>The Citadel.</i>	Jacksonville, Fla.
Charles Tracy Henderson (A)..... <i>Duke University.</i>	Morris, Ind.
William N. Henderson (A)..... <i>New York University; Duke University.</i>	Maplewood, N. J.
Thomas Alfred Hockman (N)..... <i>University of Cincinnati; Duke University.</i>	Kalamazoo, Mich.
David Smith Hubbell (A)..... <i>Duke University.</i>	Durham, N. C.
Carlos Lee Hudson (A)..... <i>University of Illinois.</i>	Urbana, Ill.
Ralph Herlinger Jamison (N)..... <i>Western Reserve University; Duke University.</i>	Warren, Ohio
Joseph Kempton Jones (N)..... <i>Duke University.</i>	Salisbury, N. C.
Thomas Francis Kelley (A)..... <i>Massachusetts State College; University of California.</i>	Waltham, Mass.
Grace P. Kerby..... <i>Florida State College for Women; Johns Hopkins University.</i>	Miami, Fla.
Ethen Sease Koon, Jr. (N)..... <i>Biltmore College; Mars Hill College; Duke University.</i>	Asheville, N. C.
Duval Holtzclaw Koonce (A)..... <i>Duke University.</i>	Chadbourn, N. C.
Thomas Howard Lewis (N)..... <i>University of Washington.</i>	Seattle, Wash.

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<i>Name and Preparation</i>	<i>Home Address</i>
Carmine Keith Lyons (N)..... <i>Duke University.</i>	Charleston, W. Va.
Walter Anderson McLeod, Jr. (N)..... <i>St. Petersburg Junior College; Duke University.</i>	St. Petersburg, Fla.
John Guy Maines, Jr. (N)..... <i>Duke University.</i>	Ossining, N. Y.
Ashton Bryom Morrison..... <i>Queen's University.</i>	Sunnyside, Northern Ireland
Paul Lanier Ogburn (A)..... <i>Canadian Academy; Duke University.</i>	Charlotte, N. C.
Harold Monroe Peacock (N)..... <i>University of North Carolina.</i>	Benson, N. C.
Robert Lloyd Pinck (A)..... <i>Washington and Lee University.</i>	Paterson, N. J.
Ralph Waldo Powell (N)..... <i>Duke University.</i>	Avondale Estates, Ga.
James Warren Rogers (N)..... <i>University of Georgia.</i>	Cleveland Heights, Ohio
Evan Weible Schear (A)..... <i>Otterbein College.</i>	Westerville, Ohio
John Edgar Scheid, Jr. (N)..... <i>Westminster College.</i>	Brackenbridge, Pa.
Guy Walter Schlaseman (A)..... <i>Duke University.</i>	Lansford, Pa.
Paul Henry Sherman (N)..... <i>Alabama Polytechnic Institute; Duke University.</i>	Baltimore, Md.
Alwyn Abraham Shugerman (A)..... <i>Birmingham-Southern College; University of Alabama.</i>	Birmingham, Ala.
Homer Alden Sieber (A)..... <i>Roanoke College.</i>	Roanoke, Va.
John Delabarre Staub (N)..... <i>Rice Institute; Texas University.</i>	Houston, Tex.
Richard Marks Stitt (N)..... <i>Pennsylvania State College; Denison University.</i>	Warren, Ohio
Thomas Bayton Suiter, Jr. (A)..... <i>Duke University.</i>	Rocky Mount, N. C.
Richard Earl Symmonds (N)..... <i>Central College.</i>	Memphis, Mo.
Lloyd McCully Taylor (N)..... <i>Maryville College.</i>	Maryville, Tenn.
James Richard Thistlethwaite (A)..... <i>University of Richmond.</i>	Richmond, Va.
Frederick Arrowood Thompson, Jr. (A)..... <i>Duke University.</i>	Lenoir, N. C.
Robert Gordon Thompson (A)..... <i>Duke University.</i>	Durham, N. C.
Malcolm Paul Tyor (N)..... <i>University of Wisconsin.</i>	Jamaica, N. Y.

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<i>Name and Preparation</i>	<i>Home Address</i>
E. Henry Valentine..... <i>Mercer University.</i>	Macon, Ga.
Joseph Emmett Walthall, III (A)..... <i>Greenbrier Military School; West Virginia University.</i>	Athens, W. Va.
Lewis William Wannamaker (A)..... <i>Emory University.</i>	St. Matthews, S. C.
Bailey Daniel Webb..... <i>Greensboro College; University of North Carolina.</i>	Oxford, N. C.
James Foster Williamson (N)..... <i>Clemson College.</i>	Columbia, S. C.
Dan Hall Willoughby (A)..... <i>University of Mississippi; Duke University.</i>	Jackson, Miss.
John Cummings Withington (A)..... <i>Duke University.</i>	Savannah, Ga.
Frank Reece Wrenn (N)..... <i>Duke University.</i>	Anderson, S. C.
Jack Dunn Wycoff (N)..... <i>The Citadel.</i>	Springfield, Ky.

SENIOR STUDENTS (OCTOBER 2, 1944-JUNE 23, 1945)

Byron Michel Bloor (N)..... <i>University of Idaho; University of Washington; University of Idaho.</i>	Moscow, Idaho
Richard Edwin Boger (N)..... <i>Duke University.</i>	Charlotte, N. C.
Jay Olsen Brinton (A)..... <i>Westminster Junior College; Eastern Kentucky State Teachers College; University of Idaho.</i>	Salt Lake City, Utah
William Armstead Brooks, III (A)..... <i>Duke University.</i>	Dallas, Tex.
Walter Jordan Brower (A)..... <i>University of Alabama.</i>	New York, N. Y.
Carrel Mayo Caudill (A)..... <i>Duke University.</i>	Pearisburg, Va.
Robert George Chambers (V)..... <i>Duke University.</i>	New York, N. Y.
Arthur Edward DeNio, Jr. (A)..... <i>Duke University.</i>	Detroit, Mich.
Hugh Dortch, Jr. (A)..... <i>University of North Carolina; University of North Carolina Medical School, 1942-1943.</i>	Goldsboro, N. C.
Carleton Cecil Douglass (M)..... <i>University of Delaware.</i>	Newark, Del.
Elizabeth Jean Dubs..... <i>Duke University.</i>	Durham, N. C.
Adolphus William Dunn (N)..... <i>Wake Forest College.</i>	Leaksville, N. C.
Ralph Gerald Eaker (A)..... <i>Wofford College.</i>	Lawndale, N. C.

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<i>Name and Preparation</i>	<i>Home Address</i>
John Richard Emler (N)..... <i>Dickinson College.</i>	Hanover, Pa.
James Edward Farley, Jr. (M)..... <i>Duke University.</i>	Durham, N. C.
Charles Shirey Flynn (A)..... <i>Bluefield Junior College; Duke University.</i>	Bluefield, W. Va.
Richard Edmond Lee Fowler (A)..... <i>University of Mississippi; University of Mississippi School of Medicine, 1942-1943.</i>	Marion, Miss.
Mary Goodyear..... <i>University of Manchester Medical School, 1939-1943.</i>	Manchester, England
Frederick Clare Hanson (N)..... <i>University of Illinois; University of Wisconsin.</i>	Geneva, Ill.
Benedict Harrow (A)..... <i>Duke University.</i>	Pittsfield, Mass.
Willis Holland Hodges, Jr. (A)..... <i>Ohio State University.</i>	Columbus, Ohio
Bruce Charles Holman (N)..... <i>Hamilton College; Duke University.</i>	Bainbridge, N. Y.
Earl Pendleton Holt, Jr. (A)..... <i>Oak Ridge Military Institute; Duke University.</i>	Oak Ridge, N. C.
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Louis Moffitt Howell (A)..... <i>University of Florida.</i>	Jacksonville, Fla.
Beverly N. Jones, Jr. (A)..... <i>Virginia Polytechnic Institute.</i>	Winston-Salem, N. C.
Stanley Jay Kallman (A)..... <i>University of North Carolina.</i>	New York, N. Y.
Seymour Robert Kaplan (N)..... <i>Brooklyn College; Duke University.</i>	Miami, Fla.
George Wallace Kernodle (A)..... <i>Elon College.</i>	Elon College, N. C.
Alfred Robert Kessler (N)..... <i>Fordham University.</i>	Astoria, N. Y.
Victor Henry Knight, Jr. (N)..... <i>Duke University.</i>	Tampa, Fla.
Emery Thomas Kraycirik (V)..... <i>Franklin and Marshall Academy; Lenoir-Rhyne College.</i>	Windber, Pa.
Ullin Whitney Leavell, Jr. (A)..... <i>Vanderbilt University.</i>	Nashville, Tenn.
Charles William Lewis, Jr. (N)..... <i>Guilford College.</i>	Greensboro, N. C.
William Figgatt Lovell (N)..... <i>North Carolina State College; Duke University.</i>	Raleigh, N. C.
James Dwight Lutz (N)..... <i>Duke University.</i>	Shelby, N. C.

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<i>Name and Preparation</i>	<i>Home Address</i>
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John P. McGovern (A)..... <i>Duke University.</i>	Washington, D. C.
A. Ziegler McPherson (A)..... <i>University of Oklahoma; University of Arkansas.</i>	Little Rock, Ark.
James Thompson Metzger (N)..... <i>Loomis Institute; University of Pittsburgh.</i>	Pittsburgh, Pa.
Lowell Stephen Miller (N)..... <i>Mars Hill College; Duke University.</i>	Asheville, N. C.
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James Donaldson Moody..... <i>Duke University.</i>	East Brady, Pa.
Thomas Joseph Moore (A)..... <i>Duke University.</i>	Bronxville, N. Y.
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Richard Milton Paddison (A)..... <i>Duke University.</i>	Savannah, Ga.
Herbert William Park, III (N)..... <i>Guilford College; George Washington University; University of North Carolina; University of North Carolina School of Medicine, 1942-1943.</i>	Greensboro, N. C.
Neal Copeland Perkins (N)..... <i>University of North Dakota; University of North Dakota School of Medicine, 1941-1943.</i>	Grand Forks, N. D.
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Alfred Rowland Pittman, Jr. (N)..... <i>North Carolina State College; Wake Forest College.</i>	Lumberton, N. C.
Grover Duckett Poole (N)..... <i>Duke University.</i>	Raleigh, N. C.
Robert Barclay Ragland (M)..... <i>Virginia Military Institute; University of Colorado; University of Florida.</i>	Jacksonville, Fla.
Clarence Lee Ruffin (A)..... <i>University of North Carolina.</i>	Tarboro, N. C.
Edwin Robert Ruskin (A)..... <i>Duke University.</i>	New Rochelle, N. Y.
Robert McCurdy Russell (A)..... <i>Duke University.</i>	Burgettstown, Pa.
Harold St. John (A)..... <i>Northwestern University.</i>	Washington, D. C.

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Murray Bernard Sheldon, Jr. (A) <i>Duke University.</i>	Roselle Park, N. J.
Stephen David Smith (A) <i>University of Georgia.</i>	Rome, Ga.
Thoburn Rudolph Snyder, Jr. (N) <i>Duke University.</i>	Mount Pleasant, Pa.
Edward John Stainbrook (M) <i>Alleghany College; Catholic University; Duke University.</i>	Durham, N. C.
William Sinclair Stewart, IV (N) <i>Duke University.</i>	Charlotte, N. C.
Wingate Elwood Swain (A) <i>Wake Forest College.</i>	Shallotte, N. C.
Frederick Harvey Taylor (N) <i>Guilford College.</i>	High Point, N. C.
Paul Clayton Thompson (N) <i>Duke University.</i>	Reidsville, N. C.
Bennie Vatz (A) <i>Eastern Carolina Teachers College; University of North Carolina.</i>	Kinston, N. C.
Carl Marvin Voyles, Jr. (A) <i>College of William and Mary.</i>	Williamsburg, Va.
William Thurman Watkins, Jr. (N) <i>Duke University.</i>	Newport News, Va.
William D. Weber (A) <i>University of Pittsburgh; Duke University.</i>	Erie, Pa.
Samuel Gould Welborn (A) <i>Davidson College.</i>	Lexington, N. C.
Hayes MacMurry White, Jr. (A) <i>Duke University.</i>	Raleigh, N. C.
Walter Barron Withers (A) <i>University of North Carolina.</i>	Chapel Hill, N. C.
Robert Clifford Wulfman (N) <i>Marshall College.</i>	Huntington, W. Va.
Karl Arden Youngstrom (A) <i>University of Kansas; University of Kansas Graduate School; University of Kansas School of Medicine, 1929-1933; University of Chicago School of Medicine, 1940-1941.</i>	Durham, N. C.
Albert C. Zahn (A) <i>Montana State University; University of North Dakota School of Medicine, 1941-1943.</i>	Mandan, N. D.

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1945



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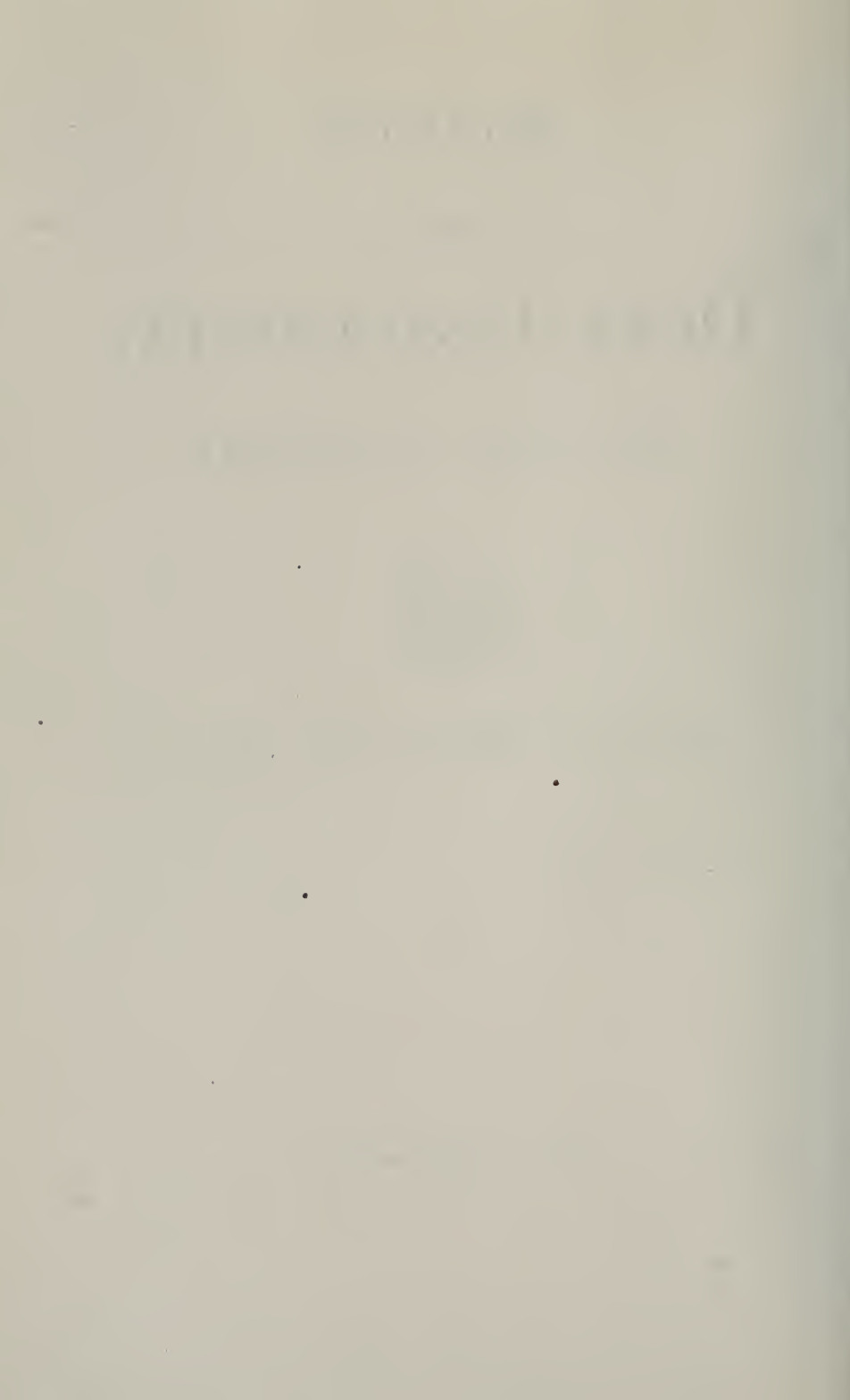
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1945



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* Absent on active duty in United States Marine Corps.

† Absent on active duty in war industry.

‡ Absent on active duty in United States Navy.

** Resigned effective March 2, 1945.

FORESTRY IN DUKE UNIVERSITY

GENERAL STATEMENT

Duke University, located at Durham, North Carolina, comprises Trinity College, the Woman's College, the College of Engineering, the Graduate School of Arts and Sciences, the Divinity School, and the professional schools of Forestry, Law, Medicine, and Nursing. Nearly every state of the Union and several nations are represented in the student body of more than thirty-six hundred, not including the enrollment in the Summer Session.

The University goes back in its origin to 1838, when Union Institute was founded in Randolph County by the Methodists and Friends. In 1851 the institution became Normal College, one of the first schools in America for the training of teachers. In 1859 the name was changed to Trinity College and so continued until 1924, when the College became a part of Duke University.

By virtue of an indenture of trust, executed December 11, 1924, by James Buchanan Duke, a great benefaction was placed at the disposal of humanity by providing for hospitalization, church work in rural communities, and education. The principal feature of the educational provision was the creation of Duke University.

The University occupies two campuses. The Woman's College campus, with its 108 acres, was formerly the campus of Trinity College. About a mile to the west are the new units of the University. The new campus, totaling 467 acres, also known as the West Campus, was first occupied in September, 1930.

Forestry in Duke University began early in 1931, when, through placing the Duke Forest under intensive management for forestry purposes, a substantial beginning was made in laying the foundations for educational work and research in forestry.

An academic-forestry curriculum, designed for students intent upon pursuing the study of forestry, particularly as a profession after graduation, was organized in Trinity College of Duke University in 1932 (see *Announcement on Undergraduate Instruction in Duke University*). This four-year course of study provides only for instruction in fundamental and auxiliary subjects basic to a proper understanding of the highly specialized work in technical forestry. Duke University offers no professional degree in technical forestry available to undergraduates.

Training in technical forestry leading to the professional degrees, Master of Forestry and Doctor of Forestry, is offered in the School of Forestry, and is open to all graduates of the academic-forestry curriculum in Trinity College and to graduates of recognized scientific schools or colleges, universities, and professional schools of forestry.

Duke University is also prepared to offer, through the Graduate School of Arts and Sciences, graduate work in the more scientific aspects of forestry leading to the Master of Arts and Doctor of Philosophy degrees. This work is available to graduates of schools of forestry of recognized standing, and to college or university graduates holding the Bachelor's degree with their major work in appropriate scientific subjects. Undergraduate subjects which the college student, who does not have forestry training but who is contemplating work toward either degree in forestry, should take in preparation for this work may be illustrated as follows: at least two full years in botany, including general morphology or anatomy, the taxonomy, physiology, and ecology of plants; at least one course in zoology or general biology; courses in chemistry, physics, geology, economics, mathematics; and at least two years of French or German.

Several staff members of the Appalachian Forest Experiment Station are engaged in co-operative research projects in the Duke Forest. Specialists from this station and other prominent members of the U. S. Forest Service and representatives of forest and wood-using industries give occasional scheduled lectures at the School.

EDUCATIONAL FACILITIES

The School of Forestry is located partly in Few Quadrangle and partly in the Biology Building along with the Departments of Botany and Zoology. The administrative offices, two classrooms, and the forest mensuration and statistical laboratory are in Few Quadrangle, while other laboratories and offices and the School Library are in the Biology Building. The Biology Building contains, in addition to classrooms, laboratories, and offices, a library, three refrigerated rooms, an incineration room, a workshop, and eight dark-rooms. The School is provided with instruments and tools for use in both field and laboratory work in silvics, silviculture, and forest mensuration. Modern surveying instruments and accessory equipment are available for work in forest surveying.

Laboratories for work in wood anatomy and properties are provided with microtechnique and photomicrographic instruments, wood-working machinery, a Henderson dry kiln, and a 50,000-pound Olsen Universal timber-testing machine. A modern forest soils laboratory equipped for physical and chemical studies is available. In the field of seasoning and preservation of wood a commercial-sized, single-compartment dry kiln and a fully equipped experimental pressure treating cylinder are available for instruction and research.

Facilities are also available for advanced work in plant physiology, plant anatomy, plant taxonomy, genetics, plant ecology, plant pathology, and the several branches of zoology. Many rooms in the Biology Building are equipped with vacuum, compressed air, direct and alternating electric current, gas, and running water.

The forestry section of the Library contains a growing collection of material on forestry, soils, and closely related subjects. It includes im-

portant books and periodicals in English and in French, German, and certain other foreign languages. The Library is well provided with American material, including Federal and State documents and reports. Over 150 periodicals and serials of importance in forestry and related fields are received by subscription or exchange.

Greenhouses, connected to the Biology Building through a soil-storage and work room, provide adequate space for experimental work.

A nursery has been established by the University for the joint use of the Sarah P. Duke Floral Garden, the Botany Department, and the School of Forestry. The forestry section of this nursery is used mainly for the growing of planting stock for the Arboretum and trees needed for research or other special purposes.

THE DUKE FOREST

The Duke Forest, located in Durham and Orange counties, North Carolina, consists of three main units; namely, the Durham, New Hope Creek, and Hillsboro divisions. Early in the development of Duke University it was recognized that the possession of such an area offered an unusual opportunity for the development of educational work in forestry.

Situated on the lower Piedmont plateau at elevations ranging from 280 to 650 feet, and composed of second-growth shortleaf and loblolly pines, oak, gum, hickory, maple, yellow poplar, ash, and other hardwoods, the Forest is representative of the various types of timber growth found throughout the region. Over a hundred different species of trees are found within or near the Forest. The land is rolling and there is relatively little rock outcrop, swamp, or other land of low productivity for timber growing. The total area of the Forest proper, exclusive of the University campus, is over six thousand acres.

In developing the Duke Forest the following objectives are being emphasized:

1. Demonstration of the various methods of timber growing, silvicultural treatment, and forest management applicable to the region.

2. Development as an experimental forest for research in the problems of timber growing and in the sciences basic thereto. In spite of the present timber situation and the accompanying economic ills, the technical and scientific knowledge required to handle forest crops efficiently on a permanent basis is still largely lacking. The Duke Forest affords a place where studies may be carried on to augment this knowledge for the large region of which the local forest and soil conditions are representative.

3. To serve as an outdoor laboratory where field work can be carried on by forestry students under the guidance of the Forestry Faculty. One of the most difficult problems in forestry education is to bring the students into contact with the realities of professional activities. With all operations in the Forest, both routine and research, recorded annually,

it is possible for a qualified man to get in a short time a degree of practical knowledge or technical expertness which only an organized forest can provide.

The Duke Forest is particularly well located to serve as a field laboratory, since most of it is adjacent and easily accessible to the University campus. In fact, the Durham Division practically surrounds the West Campus, which was laid out in one corner of the Forest. A paved State highway runs lengthwise through the Durham Division, and several good roads cross the Forest. About fifteen miles of improved woods roads make all parts of the Forest readily accessible. A five-minute walk will take one well into the Forest, and any part of the Durham or New Hope Creek divisions can be reached by automobile in from ten to twenty minutes. At few other places in America can be found provision for forestry training and research which includes the necessary forest literally at the door of a large university with its instructional, laboratory, and library facilities.

Although the Forest has been but recently organized, considerable progress has been made toward carrying out the principal objectives recognized at the outset.

Most of the 1,286 acres of open land is, or until recently has been, cultivated. Open land which is not restocking naturally to forest trees is being planted. Here students have an opportunity to study at first hand the results of many experimental plantations prepared for them in advance. Arbitrarily by mixing species and varying the spacing between the trees in the plantations now being made, the foundation is laid for future research into many perplexing problems, such as species relationships and requirements, the most desirable spacing and species to use in this region, and the survival and relative rates of growth of the different species of trees.

Over sixty permanent sample plots, ranging in size from one-tenth acre to over one acre, have been laid out in the Forest to study various problems. The plots are distributed through all the forest types, and range in purpose from studies of the effects of various silvicultural practices to studies of rates of growth and yields of the different timber types. More plots are being established as rapidly as time and funds will permit. Accurate records are kept on all this work, which will provide excellent material for student research. In the future many of these plots can also be used to demonstrate desirable forestry practices.

The work of putting the Forest under intensive management is well under way. A complete inventory of the Forest has been made, and tabulations showing the present volume and annual growth of each separate timber stand are at hand. A forest type and timber stand map for each of the three divisions has also been completed. Each division has been subdivided into permanent compartments, and recommendations for the silvicultural treatment of the separate stands in each compartment, to be embodied in a management plan, are being formulated. Cutting opera-

tions within the limits of annual growth are being carried on, and as markets for definite products are developed or expanded, such operations will be increased. To date, approximately 830 acres in the pine types have been thinned. These thinnings serve the dual purpose of contributing to the operation of the Forest as a going business and of demonstrating sound forestry practices. An efficient fire protection organization has been developed in co-operation with the State and Federal governments, and forest fire losses are being held to a minimum. In managing the Forest, public recreation activities are recognized. Several recreation areas have been established, and over fifteen thousand picnickers, hikers, and horseback riders use the area annually. The Durham and New Hope Creek divisions of the Forest, together with several hundred acres of neighboring privately owned land, are incorporated in an Auxiliary State Game Refuge to give the necessary protection which will ultimately result in an increased amount of game in the surrounding territory. Records are being maintained of all activities in the Forest, and these records will become increasingly useful as they are improved as a result of further experience and research. With the diversification and expansion of activities now going on, students have an opportunity to study an operating forest in all its phases and to obtain a grasp of the proper balance between theory and practice.

The Forest is admirably located for research in forest soils. An unusually large number of different soil conditions occur in the Forest because of the diversity of parent rock, topography, and past land culture. Major soil differences are due to the nature of the parent material which includes the basic rock of the Carolina Slate formation, granites, Triassic sedimentary rock, and many types of basic intrusives.

An exceptionally good opportunity exists for the conduct of forest research by graduate students due to the wide range in forest types, ages, and soil conditions within the Forest and its proximity to the laboratories, greenhouses, and other scientific equipment and library facilities of the University. Research has already been started on special problems, particularly in the fields of silvics, forest soils, forest-tree physiology, forest entomology, forest pathology, silviculture, forest management, and wood technology. The Forest is used not only for research in forestry but also for research in forest biology by members of allied departments.

THE ARBORETUM

Of outstanding value in the teaching of both forestry and botany in the future is the provision for development of an arboretum. In their annual meeting on June 4, 1934, the Board of Trustees of Duke University, upon the recommendation of their Forestry Committee, voted to set aside permanently an area of over three hundred acres in the Forest to be used for arboretum purposes. The area lies adjacent to the main University campus immediately across the road from the Chapel.

Through the generosity of the late W. W. Flowers, of New York, a member of the Class of 1894 and a Trustee of the University, it has been

possible to develop preliminary plans and to make a number of plantings. This is naturally a long-time project, and many years will elapse before the Arboretum will be most useful and most attractive. The University Trustees' Committee on Forestry in their report to the Board refers to the Arboretum as follows:

"The Arboretum should serve as a station for the study of trees and woody plants as individuals and in small groups in their scientific relations, economic properties, and cultural characteristics, requirements, and possibilities. It should render an economic service by acting as a research laboratory where trees and shrubs can be studied from the viewpoint of a fuller utilization of their commercial possibilities. It should render a cultural service by serving as a center where foresters, landscape architects, nurserymen, gardeners, and the general public may increase their knowledge of indigenous trees and shrubs and where they may become acquainted with the foreign species that can be grown here. Within the University the Arboretum will supply living specimens and material for several branches of botany and forestry."

The development of the Arboretum will proceed along these lines as rapidly as available funds and planting stock will permit.

FELLOWSHIPS, SCHOLARSHIPS, AND RESEARCH ASSISTANTSHIPS IN FORESTRY

A number of fellowships, scholarships, and research assistantships are available to men who offer promise of becoming leaders in the forestry profession. These will be awarded for high character and marked scholastic ability as judged by education, experience, and personal references.

Holders of the awards will pay tuition and such additional fees as are regularly required.

The awards are of three classes with stipends and special conditions as follows:

(1) Fellowships of \$400 and \$600 each. Each recipient must have previously completed work equivalent to that required at Duke University for a Master's degree with major in forestry or in a discipline basic to forestry. He will devote his entire time to an approved program of study and research in any of the branches of forestry. He is expected to become a candidate for the degree of Doctor of Forestry or Doctor of Philosophy.

(2) Scholarships at \$250 each. Each recipient will normally devote his entire time to an approved program of study leading to the degree of Master of Forestry or Master of Arts with a major in forestry.

(3) Research assistantships of \$500 each. Each recipient will devote half-time to field, laboratory, or other work of the research program of the School of Forestry. He will be permitted to enroll for not more than 20 semester hours in a school year on a program of study, or study and research, leading to the degree of Master of Forestry, Master of Arts, Doctor of Forestry, or Doctor of Philosophy.

The following arrangements are common to all fellowships, scholarships and research assistantships in forestry:

(1) Each applicant must have received a Bachelor's degree from an acceptable professional school of forestry or must be a graduate of a recognized college or university. If an applicant is not a graduate of a school of forestry, he must have had major work in botany or soil science and in the allied basic sciences. Each applicant must show reasonably high scholarship. Preference will be given to men who have already obtained technical or professional training in forestry.

(2) It is highly desirable that each applicant state as specifically as possible the field in which he wishes to study. The definite selection of a major field of work—one that is specific in purpose and involves training both in fundamentals and in technique—is very helpful to the Committee on Awards.

(3) Application blanks for fellowships, scholarships, and research assistantships may be obtained by writing to the Dean of the School of Forestry, Duke University, Durham, North Carolina. When the blank has been filled out by the applicant, it should be returned to the above address, and an *official transcript of record* showing college or university credits must accompany it or be forwarded promptly. The application and transcript must be filed not later than March 1 for consideration for the following academic year. In case vacancies occur, applications submitted on a later date may be considered.

REQUIREMENTS FOR ADMISSION TO THE SCHOOL OF FORESTRY

The following general requirements of the School of Forestry apply to candidates for the Master of Forestry degree:

Admission to the School of Forestry presupposes that the applicant is either a graduate of a scientific school, college, or university of high standing, but without professional training in forestry; or that he is a graduate of a professional school of forestry of recognized standing. He will present not less than four years of credit of collegiate grade, with at least as many quality points as hours.¹

An applicant with no professional training in forestry will present a certified transcript of his academic record showing that he has had conferred upon him a degree in arts, science, or engineering; and that he has satisfactorily completed undergraduate work in minimum amount as follows:

One year of botany, including the morphology, physiology, and identification of plants.

One year each of English and of chemistry.

One course each in physics and in the principles of economics.

Mathematics, through college algebra and trigonometry.

¹ Grades for each hour of college credit and also for credit earned in the School of Forestry are valued in quality points as follows: "A," 3 points; "B," 2 points; "C," 1 point; "D," no points; and "F," no credit and —1 point.

It is urged that an applicant without professional training in forestry present additional credits in the above subjects and in one or more of the following subjects: soils, geology, mineralogy, petrology, climatology, surveying, languages (particularly German and French), sociology, political science, philosophy, psychology, and zoology.

An applicant who is a graduate of a professional school of forestry of recognized standing will present a certified transcript of scholastic record showing the award of a degree. Before registering for the first semester of residence, such applicants will be required to select the branch or branches of forestry in which they wish to concentrate the major part of their work and to prepare their proposed programs in conference with the appropriate faculty adviser.

Students must make application for admission in advance of the opening of the school year. Those students entering without acceptable courses in plane surveying, forest surveying, and forest mensuration must take the twelve weeks of work in these subjects in the Summer Session, and are required to submit their applications prior to May 1. Students entering with advanced standing in surveying and forest mensuration should make application before September 1. Application blanks will be sent upon request made to the Dean of the School of Forestry.

REQUIREMENTS FOR THE DEGREE OF MASTER OF FORESTRY

The degree of Master of Forestry (M.F.) is conferred upon students who have satisfactorily completed two years of study in technical forestry and one term of twelve weeks' work in plane surveying, forest surveying, and forest mensuration in the Summer Session. In addition to the summer school work a total of not less than sixty semester hours' credit is required for the M.F. degree, of which at least fifty-five shall be obtained in the School of Forestry. Each student must obtain at least as many quality points as semester hours' credit under the quality-point system described in footnote 1 of the preceding section.

A two weeks' field trip to typical timber-harvesting, manufacturing, and other forestry operations in the South is conducted by the School and is required as a part of the work in Forest Products Industries (Forestry 212). Other students in the School of Forestry may be permitted to take this trip as opportunities will be available for special work and observations in other branches of forestry in forest types not represented in the Duke Forest. One semester hour of credit may be earned for participation in the field trip by registering for it in Forestry 212A.

No student may take less than fifteen or more than eighteen hours in any one semester without special permission of the School of Forestry Faculty. The following work will ordinarily be required of all candidates for the M.F. degree:

SUMMER SESSION

	S.H.
Plane Surveying (C. E. S110)	3
Forest Surveying (F. S150)	5
Forest Mensuration (F. S151)	4

FIRST YEAR

*First Semester**Second Semester*

	S.H.		S.H.
Harvesting Forest Products (F. 211)	3	Forest Products Industries (F. 212)	3
Forest Entomology (F. 231)	3	Forest Pathology (F. 224)	4
Sampling Methods (F. 251)	2	Silvics (F. 264)	3
Dendrology (F. 253)	3	Electives	
Wood Anatomy & Properties (F. 259)	3		
Forest Soils (F. 261)	3		

SECOND YEAR

Silviculture (F. 265)	5	Forest Valuation (F. 282)	3
Forest Economics (F. 279)	3	Seminar (F. 292)	1
Forest Management (F. 281)	4	Thesis	
Thesis		Electives	
Electives			

These are the normal requirements for the Master of Forestry degree, but for the duration of the war a student, upon the recommendation of his adviser and approval by the Faculty, may substitute other available work for such required courses as are not offered while the student is in residence.

Each candidate is required to file in the office of the Dean of the School of Forestry on or before May 1 three copies of a thesis, type-written and bound in accordance with regulations set forth by the Faculty. The thesis shall be based upon an original study made in the field, laboratory, or library.

Work of equivalent grade done in residence at recognized schools of forestry may, with the approval of the Faculty, be accepted as credit toward the M.F. degree. A minimum of one year's residence is required at Duke University. Students who have had satisfactory undergraduate training in forestry may, with the approval of the Faculty, elect to devote the major portion of their time to research under the supervision of one or more members of the Faculty and prepare a more comprehensive thesis than is required of students entering the School without previous work in forestry. Students in the School of Forestry may take in allied departments of the University as electives certain courses approved by the Faculty.

REQUIREMENTS FOR THE DEGREE OF DOCTOR OF FORESTRY

THE DEGREE

The degree of Doctor of Forestry is a research degree. It is based primarily upon evidence of high attainments in a special field of forestry

knowledge and upon the production of a thesis embodying the results of original research. It is not based merely upon the completion of a prescribed period of study or upon the obtaining of credit for a given number of courses.

A student who plans to enter upon a program of work leading to the degree of Doctor of Forestry should consult or enter into correspondence with the Dean of the School of Forestry. He will then be advised as to the possibility of obtaining the necessary instruction and supervision of research in the special field desired.

RESIDENCE

The normal period of resident graduate study, following satisfaction of the general requirements for admission to the Duke School of Forestry, is a minimum of two academic years after the student has obtained the graduate professional degree of Master of Forestry, or its equivalent. At least one of these two years of graduate study must be spent in actual residence at Duke University. With the approval of the Faculty of the School of Forestry work of equal grade done in residence at another college or university, or at a research station or institute not connected with a college or university, may be accepted toward a Doctor of Forestry degree. Only in connection with the preparation of the thesis will work be accepted that has been done elsewhere than in residence at a college, university, research station, or institute. A student whose undergraduate work is insufficient in amount or unsatisfactory in character may be required to spend additional time in preliminary courses essential as a basis for the graduate work he proposes to undertake.

Students whose research is concerned with the study of trees and forest stands in the Duke Forest during the growing season may find it necessary to be at the University during the summer.

Credit for one year of work done in regular terms of the Summer Session at Duke University may be given with the approval of the School of Forestry Faculty. Except in unusual cases, graduate work of fragmentary character taken over a long period of years, or work completed many years before the student becomes a candidate for the degree at Duke University, will not be accepted as satisfying the requirements of residence.

APPLICATION FOR CANDIDACY

No student will be admitted as a candidate for the degree of Doctor of Forestry until he has obtained the professional graduate degree of Master of Forestry or its equivalent, either at Duke University or at a professional school of forestry of recognized standing. A student desiring to become a candidate for the Doctor of Forestry degree is ordinarily required to file with the Dean of the School of Forestry, at the beginning of his graduate work toward this degree, a formal application indicating in which field and under what professor he proposes to carry on research. A committee of the Faculty will then be appointed to supervise the stu-

dent's work, with the professor in charge of his research as chairman. If and when the committee finds that the preliminary requirements of the major field have been satisfied, the chairman of the committee will report the fact in writing to the Dean of the School of Forestry. In the case of students who come to Duke University for only the last year of graduate work, and in special cases approved by the School of Forestry Faculty, the application for recognition as a candidate for the Doctor of Forestry degree may be filed later than provided above, but not later than October 15 of the academic year in which it is desired that the degree be conferred.

PROGRAM OF STUDY

The program of study of a candidate for the Doctor of Forestry degree will be arranged after consultation with the committee provided for in the preceding section and is subject to the approval of the Dean and Faculty of the School of Forestry. The student must select a major field and one or two minor related fields. Both major and minor may be selected in different branches of forestry or the minor may be taken in a related field in some other school or department of Duke University.

FOREIGN LANGUAGES

A reading knowledge of two foreign languages is required. One language shall be either French or German, and the other optional to fit the requirements of the student's problem. No student may come up for his preliminary examination before having satisfied the language requirements for the Doctor's degree. Foreign language examinations are conducted by the appropriate language department or, in special cases, by a qualified member of the Faculty of Duke University.

PRELIMINARY EXAMINATION

Toward the end of the first full year of graduate work for the Doctor of Forestry degree (or in special cases early in the second year), a preliminary examination of each candidate will ordinarily be held covering the general field of his studies. This examination will be conducted by the committee in charge of the student's work and will be written. A student who passes the examination will be recognized as a candidate for the Doctor of Forestry degree. A student's major and minor subjects will ordinarily be included in this preliminary examination.

If a student fails on his first examination, he may make a second attempt after six months upon recommendation of his committee and the approval of the Dean of the School of Forestry. Two failures on this examination make the student ineligible to continue work toward the Doctor of Forestry degree at Duke University.

THESIS

The thesis for the Doctor of Forestry degree must be a contribution to knowledge. The subject of the thesis must be filed with the Dean of

the School of Forestry on or before October 15 of the academic year in which the candidate desires to take the final examination for his degree. The subject must receive the written approval of the professor under whom the thesis is being written and of the Dean of the School of Forestry. The thesis must be completed to the satisfaction of the major professor. Four typewritten copies in approved form must be deposited with the Dean of the School of Forestry on or before April 15 if the student desires to be examined on the thesis in the same academic year. The title page must be approved by the Dean of the School of Forestry. Two of the copies, the original and a carbon copy, are placed in the School of Forestry library, one copy goes to the major adviser, and one is returned to the student.

The candidate's thesis must be published either in its original form or in a modified form approved by the Dean of the School of Forestry and the committee in charge of the candidate's work. In its published form the title page should include this statement: "A Thesis Submitted in Partial Fulfillment of the Requirements for the Degree of Doctor of Forestry in the School of Forestry of Duke University." Ten copies of the published thesis should be deposited in the office of the Dean of the School of Forestry within a reasonable time after publication. The degree will not be conferred until publication of the thesis, in approved form, within three years has been guaranteed in a way satisfactory to the Dean of the School of Forestry and the professor under whom the thesis was written.

FINAL EXAMINATION

The final examination will be on the thesis and on related subject matter and will be oral. Approximately one year must elapse between the dates of the preliminary examination and the final examination, except in special cases approved by the School of Forestry Faculty. Two failures on this examination make a student ineligible to continue work toward the Doctor of Forestry degree at Duke University. The second examination may be given only upon the recommendation of the professor in charge of the thesis and the approval of the Dean of the School of Forestry.

GRADING

Members of the Faculty are expected to report grades of graduate students to the School of Forestry Office not later than February 15 for the first semester and not later than June 15 for the second semester on the cards provided for that purpose. An average grade of "B" or better will be required for all work, beyond that for the degree of Master of Forestry, that is to be credited toward the Doctor of Forestry degree. A mark of "Incomplete" may be given when a student has failed, for an acceptable reason, to complete some portion of the required work in which his standing is generally satisfactory. Unless a report is made within one year that the work has been satisfactorily completed, all credit will be lost.

FORESTRY IN THE GRADUATE SCHOOL

Graduate work toward the Master of Arts and Doctor of Philosophy degrees in the more scientific branches of forestry is available to adequately prepared students at Duke University. This work is given through the Division of Forestry of the Graduate School of Arts and Sciences by certain members of the School of Forestry Faculty.

The following special conditions will influence the acceptance of students for graduate study in forestry: The student must have received a degree from a professional school of forestry of recognized standing or from an approved college or university. Graduates of professional schools of forestry must also have had adequate training in liberal arts and sciences, approximating 86 semester hours, before being admitted to candidacy for the Master of Arts or Doctor of Philosophy degrees. College graduates who have had specialized training in botany or soil science and in allied basic subjects, such as physics, chemistry, geology, and zoology, may pursue graduate study and research only in the specialized fields for which their previous work has qualified them.

The Forestry Staff will determine whether a student is qualified to pursue graduate study in any of the special fields of forestry in which work is available.

The Master of Arts and Doctor of Philosophy degrees are attained through scientific work rather than technical or professional training in forestry. Work for these degrees may be pursued only in forest-tree physiology, wood anatomy and properties, forest pathology, forest entomology, silvics, forest soils, forest mensuration, forest management, and forest economics, except that a major cannot be taken in forest management. A student upon registration chooses a field of study which may lie in two or more departments. The members of the Graduate School Faculty best qualified in that field are named as the student's advisory committee, regardless of the department of which they are members. This committee will advise the student in the planning and conduct of his work and will evaluate it when completed.

A reading knowledge of French and German must be acquired early in the course of graduate study in forestry because much of the forestry literature of the world is written in or has summaries in these languages. For the Ph.D. degree the language requirement must be met before the preliminary examination is taken and usually before the preparation of the thesis is begun.

The length of time required for a student to obtain the Master of Arts and Doctor of Philosophy degrees in forestry is determined by the character of his previous work and by the quality of his work in the Graduate School. Upon the recommendation of the Forestry Staff and with the approval of the Council on Graduate Instruction, work of equal grade done in residence at another college or university, or at a research

station or institute not connected with a college or university, may be accepted toward a Ph.D. degree, but at least the last year or the first two years of graduate study must be spent in actual residence at Duke University. Only in connection with the preparation of the thesis will work be accepted that has been done elsewhere than in residence at a college, university, or research station.

Students whose research is concerned with the study of trees and forest stands in the Duke Forest during the growing season may find it necessary to be at the University during the summer.

The field of study may include advanced work in allied subjects as well as advanced work in forestry. The student should have covered, however, most of the basic subjects prior to entering the Graduate School. The required advanced work will depend upon the student's previous training and the special field of study selected. Before beginning his work a student must obtain approval of his proposed program of study, including the plans for the research for his thesis. Courses of study must be correlated with each other and with the thesis research.

For further information on requirements for admission to the Graduate School of Arts and Sciences and on the general requirements for the Master of Arts and Doctor of Philosophy degrees reference should be made to the *Bulletin of the Graduate School of Arts and Sciences*.

COURSES AND SUBJECTS OF INSTRUCTION

With the exception of the summer session courses, odd-numbered courses are offered in the autumn semester, and even-numbered courses are offered in the spring semester.

IN THE SUMMER SESSION

C.E. S110. Plane Surveying.—A special section of C.E. S10 intended for students in Forestry and others of advanced standing. *Three weeks, nine hours a day. 3 s.h.* PROFESSORS BIRD AND W. H. HALL, AND MR. WILLIAMS
[Not offered summer 1945]

S150 Forest Surveying.—Application of plane surveying to forest problems; practice in making boundary and topographic surveys of forested tracts, using both intensive and extensive methods. Work includes use of transit, level, traverse board, topographic abney and slope tape, and aneroid barometer. Prerequisites: Civil Engineering, S110, plane surveying, or equivalent. *Five weeks, eight hours a day. 5 s.h. (w)* PROFESSOR MAUGHAN
[Not offered summer 1945]

S151. Forest Mensuration.—Field studies in methods of measuring content and growth of trees and forest stands; practice in timber estimating, log scaling, use of mensurational instruments, and collection of basic data. *4 s.h. (w)* PROFESSOR SCHUMACHER

FOR SENIORS AND GRADUATES

211. Harvesting Forest Products.—Methods of harvesting and transporting to utilization plants all products obtained from forests, including saw logs, pulpwood, poles, ties, stave and veneer bolts, naval stores, distillation wood, and other commercial commodities, with emphasis on application of methods best adapted to managed forests in important forest regions of North America and consideration of costs. *3 s.h. (w)* PROFESSOR WACKERMAN

212. Forest Products Industries.—Preparation, manufacture, and use of tree products for all purposes including lumber, paper, naval stores, veneer, cooperage, boxes, distillation, and other specialized products with emphasis on methods of manufacturing and kinds of wood required for various commodities. Inspection of typical forest operations and forest products manufacturing plants in the South during two weeks of spring semester. *3 s.h. (w)* PROFESSOR WACKERMAN

213. Seasoning and Preservation of Wood.—Principles of seasoning lumber and other forest products by air drying and kiln drying, types of kilns and their operation; principles, methods, and materials used in treating wood to increase its durability. *3 s.h. (w)* PROFESSOR WACKERMAN

214. Marketing Forest Products.—Methods of selling and distributing timber, lumber, and other forest products in domestic and foreign trade; transportation methods; promotional activities of trade associations; competition between producing regions for markets and problems arising from the development of wood substitutes. Prerequisites: Forestry 211 and 212, or equivalents. *3 s.h. (w)* PROFESSOR WACKERMAN

224. Forest Pathology.—Special reference to diseases of forest trees. Prerequisites: Botany 1 and 2, and Forestry 253, or equivalents. *4 s.h. (w)* PROFESSOR WOLF

231. Forest Entomology.—Morphology, general classification, life histories, and control of insects injurious to forest trees, logs, and lumber. 3 s.h. (w) PROFESSOR BEAL

236. Forest Game Management.—Characteristics and life histories of forest animals; interrelationship between animals and forests; management of forest animals for revenue; control of noxious species. 3 s.h. (w) PROFESSOR BEAL

251. Sampling Methods in Forestry.—Statistical background for solution of sampling problems with special reference to sample inventory of a forest property. Prerequisite: Forestry S151. 2 s.h. (w) PROFESSOR SCHUMACHER

252. Forest Mensuration.—Empirical equations and curve fitting appropriate for construction of timber yield tables, tree volume and taper tables; significance tests and graphical solution of equations. Assignments require operation of calculating machines. Prerequisite: Forestry 251. 2 s.h. (w) PROFESSOR SCHUMACHER

253. Dendrology.—Nomenclature, classification, and identification of woody plants with special reference to species indigenous to southeastern United States and other important forest regions of temperate North America. Laboratory and field work. Prerequisite: one year of botany. 3 s.h. (w) PROFESSOR BEAL

256. Wood Pulp and Pulp Products.—Characteristics of pulp and paper fibres; processes employed in pulp manufacture; methods of refining and testing pulps; theory and practice of bleaching and hydration; the manufacture of papers and other cellulose derivatives. Prerequisites: Forestry 212 and 259, or equivalents. 3 s.h. (w) ASSOCIATE PROFESSOR HARRAR

257. Design of Forestry Experiments and Analysis of Data.—Role of experimental design in field and laboratory, and statistical analysis of data as aspects of scientific method in forest research. 5 s.h. (w) PROFESSOR SCHUMACHER

259. Wood Anatomy and Properties.—Anatomical, chemical, and non-mechanical physical properties of wood; macroscopic and microscopic identification of more important woods of the United States. Prerequisites: one year of botany and Chemistry 1 and 2, or equivalents. 3 s.h. (w) ASSOCIATE PROFESSOR HARRAR

260. Timber Mechanics.—Comprehensive study of mechanical properties of wood and factors affecting its strength; strength-moisture relationships; standard methods of timber testing and application of strength data in development of working stresses; use of graphic statics in analysis of stress in wooden structures. Prerequisites: Physics 1 and Forestry 259, or equivalents. 3 s.h. (w) ASSOCIATE PROFESSOR HARRAR

261. Forest Soils.—Origin, development, and classification of soils with special emphasis on those developed in climates supporting forests; morphological, physical, and chemical properties of soils in relation to growth of trees; field identification, field sampling, laboratory analysis, and interpretation of field and laboratory observations; interrelationships of soil and forest cover. Prerequisites: Chemistry 1 and 2, and Physics 1, or equivalents; physical geology and analytical chemistry are also desirable. 3 s.h. (w) [Not offered 1945-46] ASSOCIATE PROFESSOR COILE

264. Silvics.—Ecological foundations of silviculture with special reference to forest site factors; influence of forests on their environment; growth and

development of trees and stands; origin, development, and classification of forest communities; methods of studying forest environments. Desirable prerequisites: plant physiology, plant ecology, and Forestry 253 and 261, or equivalents. 3 s.h. (w) PROFESSOR KORSTIAN

265. Theory and Practice of Silviculture.—Principles governing natural regeneration and treatment of forest stands and their application to main commercial forest species, types, and regions of temperate North America; reproduction methods, intermediate cuttings, cultural operations, and silvicultural plans. Field practice includes marking timber for various kinds of cuttings, cultural treatments, preparation of plans for silvicultural treatment of forests, and study of intensively managed forests. Prerequisite: Forestry 264 or equivalent. 5 s.h. (w) PROFESSOR KORSTIAN

266. Forest Seeding and Planting.—Place of artificial regeneration in practice of forestry; reforestation surveys and plans; collection, extraction, cleaning, testing, and storage of forest tree seeds; direct seeding; nursery practice; forest planting. 2 s.h. (w) PROFESSOR KORSTIAN

273. Forest Protection.—Fundamental principles of forest protection; protection against atmospheric agencies, injurious plants, insects, domestic animals, and wildlife; causes of forest fires and their prevention; presuppression activities; fire suppression; fire control costs and standards; fire plans. 2 s.h. (w) [Not offered 1945-46] ASSOCIATE PROFESSOR THOMSON

276. Forestry Policy.—Critical study of forestry movement and development of a forestry policy, particularly in United States; brief résumé of forestry in important foreign countries; public land laws of United States; development of Federal and State forestry; forestry laws. 2 s.h. (w) [Not offered 1945-46] ASSOCIATE PROFESSOR THOMSON

279. Economics of Forestry.—Principles of forest economics. Economic and social values of forests; forest resources and wood requirements; economics of wood production and consumption; prices of forest products; forestry and public finance; forestry and land use; forestry credit; forest fire insurance; forestry as a private business enterprise. Prerequisite: at least one course in the principles of economics. 3 s.h. (w) PROFESSOR WACKERMAN

281. Forest Management.—Principles of organizing forest properties for systematic management including surveys, inventories, subdivision, and preparation of management plans for control of operations; principles of forest regulation, actual and normal forests, rotations, cutting cycles, and methods of regulating the cut for sustained yield. Prerequisites: Forestry S150, S151, and 251, or equivalents. 4 s.h. (w) PROFESSOR MAUGHAN

282. Forest Valuation.—Principles involved in appraising value of forests as business enterprises; valuation of land and timber, soil rent and forest rent theories, cost values, market values and capital values, profit, and rate earned; appraisal of stumpage values and damage appraisals; financial aspects of sustained yield management compared with destructive logging. Prerequisite: Forestry 281 or equivalent. 3 s.h. (w) PROFESSOR MAUGHAN

292. Seminar.—Interrelation of various branches of forestry in their application to forestry problems; assigned topics with special reference to current forestry activities. 1 s.h. (w) THE STAFF

211A to 282A. Special Studies in Forestry.—Work on the same level as the foregoing Senior-Graduate courses to meet the needs of individual students. Credits and hours to be arranged. THE STAFF

FOR GRADUATES

301-302. Advanced Studies in Forestry.—Credits to be arranged. To meet individual needs of graduate students in the following branches of forestry:

- a. **Silvics.**—Prerequisites: Forestry 253, 261, and 264, or equivalents.

PROFESSOR KORSTIAN

- b. **Forest Soils.**—Prerequisite: Forestry 261 or equivalent.

[Not offered 1945-46]

ASSOCIATE PROFESSOR COILE

- c. **Silviculture.**—Prerequisite: Forestry 265 or equivalent.

PROFESSOR KORSTIAN

- d. **Forest Management.**—Prerequisite: Forestry 281 or equivalent.

PROFESSOR MAUGHAN

- e. **Forest Economics.**—Prerequisite: Forestry 279 or equivalent.

[Not offered 1945-46]

ASSOCIATE PROFESSOR THOMSON

- f. **Wood Anatomy and Properties.**—Prerequisites: Forestry 259 and 260, or equivalents.

ASSOCIATE PROFESSOR HARRAR

- g. **Forest Mensuration.**—Prerequisites: Forestry S151, 251, and 252, or equivalents.

PROFESSOR SCHUMACHER

- h. **Forest Entomology.**—Prerequisite: Forestry 231 or equivalent.

PROFESSOR BEAL

- i. **Forest Utilization.**—Prerequisites: Forestry 211 and 212, or equivalents.

PROFESSOR WACKERMAN

- j. **Dendrology.**—Prerequisite: Forestry 253 or equivalent.

ASSOCIATE PROFESSOR HARRAR

311. Advanced Forest Utilization.—Analysis of the principles of determining the cost of and returns from harvesting timber for various products and other uses of forests; study of factors governing the relation of tree size to net stumpage values; and the application of these principles and methods in the solution of actual case problems. Prerequisite: Forestry 211 or equivalent. 2 s.h. (w)

PROFESSOR WACKERMAN

323-324. Advanced Forest Pathology.—Advanced study and research on life histories and control of diseases of forest trees to meet individual needs of graduate students. Prerequisites: plant physiology and forest pathology. Credits to be arranged.

PROFESSOR WOLF

351-352. Advanced Physiology of Forest Trees.—Advanced study and research on problems in physiology of forest trees to meet individual needs of graduate students. Prerequisites: plant physiology and plant ecology or silvics. Credits to be arranged.

ASSOCIATE PROFESSOR KRAMER

354. Forest Soil Fertility.—Experimental approach to the problems of fertility in forest soil. Influence of stand composition on nitrogen transformation. Methods of studying the exchange complex and the significance of base exchange in forest soil fertility. Prerequisites: Forestry 251 and 261, and plant physiology, or equivalents; bacteriology and analytical and organic chemistry are desirable. 3 s.h. (w)

ASSOCIATE PROFESSOR COILE

[Not offered 1945-46]

356. Economic Forces in Forestry.—Analysis of classical and contemporary theories of forest valuation. Principles underlying the measurement of forces determining forestry values. Prerequisites: Forestry 279 and 282, or equivalents; courses in economic theory are desirable. 2 s.h. (w)

[Not offered 1945-46]

ASSOCIATE PROFESSOR THOMSON

357-358. Research in Forestry.—Credits to be arranged. Students who have had adequate training may do research under direction of members of the Faculty in the branches of forestry indicated under courses 301-302 with the same prerequisites as thereunder noted. Each branch to bear the same letter designation as under Courses 301-302.

THE STAFF

FEES AND EXPENSES

The following tables show the general fees and charges collected from all students and the special fees collected from those taking laboratory courses. All fees for each semester are due and payable, unless otherwise specified, at the time of registration at the beginning of that semester, and no student is admitted to classes until arrangements have been made with the Treasurer of the University for the settlement of fees.

GENERAL FEES

Matriculation, per semester	\$ 25.00
Tuition, per semester	100.00
Room-rent—see the detailed statement that follows.	
Athletic Fee, admitting students to all athletic contests held on the University grounds, per semester	5.00
Damage Fee, payable annually at the time of first registration	1.00
Medical Fee, per semester	5.00
Library Fee, per semester	5.00
Commencement Fee, payable once by graduate students in the last semester before a degree is conferred	3.00
Diploma Fee, payable by candidates for degrees, at the beginning of the second semester, refunded if the diploma is not awarded	5.00

For further information concerning room-rent, see below.

SPECIAL FEES

Graduate students in the sciences are required to pay the special laboratory fees for courses as fixed by the various departments. An administrative fee is charged in connection with special research in the summer under direction of a member of the Faculty. Special laboratory and materials fees in forestry are as follows:

Forestry 224, 253, 359, 260, 264, 301a, 302a, and 357a, and 358a	\$2.50
Forestry 261, 351-352, 354, 301b, 301f, 302b, 302f, 357b, 357f, 358b, and 358f	\$2.50 to \$5.00.

TRANSCRIPTS

A student desiring to transfer from Duke University to another institution is entitled to one transcript of his record. A charge of one dollar is made for each additional copy.

PAYMENTS TO FELLOWS AND SCHOLARS

Payments by the University of stipends to fellows, research assistants, and scholars are made in four installments, on November 25, January 25, March 25, and May 25.* Fellows and scholars are required to

* This date of payment will be adjusted to accord with the advancement in the date of Commencement.

pay the regular tuition fee and such additional fees as are ordinarily required of graduate students.

ROOMS AND CONDITIONS OF RENTING THEM

ROOM-RENT FOR MEN OF DUKE UNIVERSITY

West Campus, per semester\$50.00, \$62.50, and \$75.00
East Campus, per semester\$30.00 and \$50.00.

All graduate courses are given on the West Campus.

Rooms are reserved only for students who have been officially accepted by the University. They are rented for no shorter period than one semester. The occupancy of a room for a period of less than one semester will cost the student \$1.00 each day unless the occupant makes the necessary arrangements with the Director of the Business Division before occupying the room. A room deposit of \$25.00 is required of each applicant for admission. The fee is deducted from the room charges at the time of registration for the full semester. The reservation fee will be refunded to any applicant not accepted by the University provided the official receipt for the fee, given to all paying it, is presented either in person or by letter to the Treasurer's Office, but students who make application and are accepted will not be entitled to have the reservation fee refunded unless the request is made on or before August 1.

A resident student who wishes to retain his room for the succeeding year must first pay a reservation fee of \$25.00 to the Treasurer's Office and then notify the office of the Director of the Business Division on or before May 15. All rooms which have not been signed for on or before May 15 will be considered vacant for the succeeding year. When a room is once engaged by a student, no change will be permitted except with the consent of the Director of the Business Division. Leaving one room and occupying another without permission is strictly against the rule and will render the offender liable to a charge for both rooms for the entire semester. No occupant is permitted to rent or sublet a room to another occupant. The use of a room for merchandising of any kind is strictly forbidden.

The University does not assume the responsibility of selecting and assigning roommates, though it will gladly render any assistance possible in the matter.

DORMITORIES FOR MEN

On the West Campus there are four groups of dormitories, Craven, Crowell, Kilgo, and Few. Each group forms a quadrangle enclosing a court. Few Quadrangle is reserved especially for the use of graduate and professional school students.

BOARDING ACCOMMODATIONS

West Campus.—Beginning with the academic year 1930-31 the University opened its dining hall in the Union on the West Campus with accommodations sufficient to provide in a superior way for all resident men students. It is the policy of the University to furnish board to its students at actual cost. Charges for board will not exceed \$25.00 per month.

The Union is the logical center of student activities for men, and it will be found desirable for male students to board in its supervised halls. In the Union are located the University Post Office, the University Store, the University Barbershop, and all publication staff offices.

In addition to the Union dining halls a coffee shop is operated for the convenience of students and visitors.

ESTIMATED EXPENSES FOR AN ACADEMIC YEAR

The necessary expenses of a graduate student are moderate: the University dormitories provide thoroughly comfortable and wholesome living conditions at a minimum cost, while all charges made by the University have been kept low. Incidental expenses naturally depend upon the tastes and habits of the individual. The following table gives the necessary college expenses for one year:

	<i>Low</i>	<i>Moderate</i>	<i>Liberal</i>
Tuition	\$200.00	\$200.00	\$200.00
Matriculation	50.00	50.00	50.00
Room-rent	100.00	125.00	150.00
Board	225.00	225.00	225.00
Laundry	20.00	25.00	35.00
Books	22.50	30.00	45.00
Library Fee	10.00	10.00	10.00
Athletic Fee	10.00	10.00	10.00
Damage Fee	1.00	1.00	1.00
Medical Fee	10.00	10.00	10.00
<i>Total</i>	<u>\$648.50</u>	<u>\$686.00</u>	<u>\$731.00</u>

ENROLLMENT, 1944-45

STUDENTS IN THE SCHOOL OF FORESTRY

*Goebel, Norbert Bernard.....Racine, Wis.
B.S., Colorado State College, 1940

Total 1

STUDENTS OF FORESTRY IN THE GRADUATE SCHOOL OF ARTS AND SCIENCES

Matte, Lorenzo.....Rimouski, Que., Canada
1603 Duke University Road
B.A., Université Laval, 1932
Bachelor of Surveying, Université Laval, 1939
Forestry Engineer, Université Laval, 1939
M.F., Duke University, 1944

Total 1

INSTITUTIONS REPRESENTED

Colorado State College 1	Université Laval 3	
Duke University 1	<i>Total Institutions</i> 3	

GEOGRAPHICAL DISTRIBUTION

United States

Wisconsin 1

Foreign Countries

Canada 1

GENERAL SUMMARY

Students in the School of Forestry	1
Students of forestry in the Graduate School of Arts and Sciences	1
<i>Total Enrollment</i>	2
Total number of institutions represented	3
Total number of states represented	1
Total number of foreign countries represented	1

* Candidate for the degree of Master of Forestry.

VOLUME 17

February, 1945

NUMBER 2

BULLETIN OF DUKE UNIVERSITY

College of Engineering



1944-1945

ANNOUNCEMENTS FOR 1945-1946

PUBLISHED BY THE UNIVERSITY
DURHAM, NORTH CAROLINA

ANNUAL BULLETINS

For GENERAL BULLETIN of Duke University, apply to *The Secretary*, Duke University, Durham, N. C.

For BULLETIN OF UNDERGRADUATE INSTRUCTION, apply to *The Secretary*, Duke University, Durham, N. C.

For BULLETIN OF THE COLLEGE OF ENGINEERING, apply to *The Secretary*, Duke University, Durham, N. C.

For BULLETIN OF THE GRADUATE SCHOOL OF ARTS AND SCIENCES, apply to *The Dean of the Graduate School*, Duke University, Durham, N. C.

For BULLETIN OF THE SCHOOL OF LAW, apply to *The Dean of the School of Law*, Duke University, Durham, N. C.

For BULLETIN OF THE SCHOOL OF MEDICINE, apply to *The Dean of the School of Medicine*, Duke University, Durham, N. C.

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For BULLETIN OF THE DIVINITY SCHOOL, apply to *The Dean of the Divinity School*, Duke University, Durham, N. C.

For BULLETIN OF THE SCHOOL OF FORESTRY, apply to *The Dean of the School of Forestry*, Duke University, Durham, N. C.

For BULLETIN OF THE SUMMER SESSION, apply to *The Director of the Summer Session*, Duke University, Durham, N. C.

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BULLETIN
OF
DUKE UNIVERSITY



COLLEGE OF ENGINEERING

1944-1945
ANNOUNCEMENTS FOR 1945-1946

DURHAM, NORTH CAROLINA
1945

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UNIVERSITY CALENDAR

The calendar will be available at a later date
and will be supplied upon request.

1945

JANUARY	APRIL	JULY	OCTOBER
S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S
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MARCH	JUNE	SEPTEMBER	DECEMBER
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1946

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ADMINISTRATIVE OFFICERS

ROBERT LEE FLOWERS, A.M., LL.D. <i>President of the University</i>	West Campus
WILLIAM HANE WANNAMAKER, A.B., A.M., Litt.D. <i>Vice-President and Dean of the University</i>	West Campus
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ALAN KREBS MANCHESTER, A.B., A.M., Ph.D. <i>Dean of Freshmen</i>	Myrtle Drive
WILLIAM ALLEN TYREE, A.B. <i>Director in the Business Division</i>	610 Buchanan Road

EXECUTIVE COMMITTEE, COLLEGE OF ENGINEERING

W. H. HALL, <i>Chairman</i>	
W. A. TYREE, <i>Secretary</i>	W. J. SEELEY
H. C. BIRD	R. S. WILBUR

INSTRUCTIONAL STAFF

HAROLD CRUSIUS BIRD, Ph.B., C.E. <i>Professor of Civil Engineering, Chairman of Department of Civil Engineering</i>	1209 Virginia Avenue
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RALPH SYDNEY WILBUR, B.S. in M.E., M.E. <i>Professor of Mechanical Engineering, Chairman of the Department of Mechanical Engineering</i>	1018 Demerius Street
THOMAS CHEATHAM COOKE <i>Instructor in Mechanical Engineering</i>	2209 Wilson Street
GEORGE F. HACKNEY, B.S. <i>Instructor in Engineering Drawing</i>	1012 Knox Street
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* Died, July 17, 1944.

EDWARD K. KRAYBILL, B.S. in E.E. <i>Instructor in Electrical Engineering</i>	900 Dacian Avenue
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TOM E. MOORE, B.S. <i>Instructor in Engineering Drawing</i>	123 Cheek Street
AUBREY E. PALMER, B.S. in Engr., C.E. <i>Instructor in Civil Engineering</i>	103 Turrentine Street
HULME HOLMES PATTINSON, B.A., B.S.M.E. <i>Instructor in Mechanical Engineering</i>	1322 Arnette Avenue
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JOSEPH PHILLIP EDWARDS <i>Laboratory Technician in Electrical Engineering</i>	1604 B Street
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CHARLES KILGO BRADSHER, A.B., M.A., Ph.D. <i>Instructor in Chemistry</i>	2302 Elder Street
ASHBEL GREEN BRICE, A.B., A.M. <i>Instructor in English</i>	814 Sixth Street
DAVID WILLIAMS CARPENTER, A.B., A.M., Ph.D. <i>Associate Professor of Physics</i>	137 Pinecrest Road
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PAUL M. GREGORY, A.B., Ph.D. <i>Instructor in Economics</i>	608 Buchanan Road
LOUISE HALL, B.A., S.B. in Architecture, Brevet d'Art de la Sorbonne <i>Assistant Professor of Fine Arts</i>	211 Faculty Apartments
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ARCHIBALD CURRIE JORDAN, A.B., A.M. <i>Assistant Professor of English</i>	147 Pinecrest Road
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KARL BACHMAN PATTERSON, A.B., A.M. <i>Assistant Professor of Mathematics</i>	1024 Monmouth Avenue
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*JOHN H. ROBERTS, A.B., Ph.D. <i>Associate Professor of Mathematics</i>	2813 Legion Avenue
C. RICHARD SANDERS, B.Ph., M.A., Ph.D. <i>Assistant Professor of English</i>	921 Monmouth Avenue
JOSEPH J. SPENGLER, A.B., M.A., Ph.D. <i>Professor of Economics</i>	2440 Cranford Road
ROBERT H. VAN VOORHIS, A.B., A.M. <i>Instructor in Economics</i>	1002 Wells Street
ROBERT NORTH WILSON, A.B., M.S. <i>Professor of Chemistry</i>	822 Third Street
Assisted by members of General Faculty listed in <i>General Bulletin</i> .	

COUNCIL ON ENGINEERING INSTRUCTION

President R. L. FLOWERS	L. G. BONNER, Physics
Vice-President W. H. WANNAMAKER	M. E. HOBBS, Chemistry
Dean W. H. HALL	FRANK DEVYVER, Economics
H. C. BIRD, Civil Engineering	C. R. SANDERS, English
W. J. SEELEY, Electrical Engineering	J. J. GERGEN, Mathematics
R. S. WILBUR, Mechanical Engineering	W. A. TYREE, Secretary

* Absent on leave, U. S. Navy.

ENGINEERING COURSES OFFERED

GENERAL STATEMENT

Duke University, through the College of Engineering, offers standard four-year courses in civil, electrical, and mechanical engineering, with an aeronautical option for mechanical engineers. These departments are housed respectively in Bivins, Asbury, Branson, and the Aeronautics Laboratory buildings. Allied subjects are taught on the East Campus in Carr, West Duke, and the Science buildings. The James H. Southgate Memorial Building, set aside for the housing of engineering students, contains social rooms, gymnasium, dining hall, and kitchen, as well as dormitory facilities. Meals are provided in this building at the same rate which prevails in the other University dining halls.

CURRICULA: All of the curricula of the College of Engineering are fully accredited by the Engineers' Council for Professional Development, recognized accrediting agency for engineering education. Fundamental training is given in English, mathematics, and the sciences, as well as in the technical subjects leading to professional work in civil, electrical, and mechanical engineering. Election of courses in the Department of Economics and Business Administration is encouraged in the belief that the combining of such courses with the rigorous engineering program affords excellent preparation for the types of commercial or industrial activities in which engineering training is most valuable.

FACULTY: The members of the Instructional Staff have been chosen particularly for their ability to teach. Instruction is given in small sections, thereby insuring personal attention. The laboratory is used to supplement the classrooms, and at present the same instructor carries his class through both the classroom and laboratory work. This is made possible only where classes are limited in size.

STUDENT ACTIVITIES: Four national engineering societies, the American Institute of Electrical Engineers, the American Society of Civil Engineers, the American Society of Mechanical Engineers, and the Institute of the Aeronautical Sciences, are represented by student chapters operating under national charters. An honorary engineering fraternity, Delta Epsilon Sigma, was organized several years ago for the purpose of stimulating good scholarship among the engineering students. All five of these organizations afford unusual opportunities for the members to present papers and to conduct discussions in certain phases of engineering not covered in the classroom. Engineering students are in every sense a part of the student body of Duke University, enjoying the general advantages of the University and being subject to the general rules and regulations.

HISTORY: The teaching of engineering is not new at Duke University. From 1887 to 1893 formal courses in civil and mining engineering lead-

ing to the Bachelor of Science degree were offered by Trinity College. After their discontinuance in 1893, the teaching of engineering subjects was begun again in 1903 and has continued uninterruptedly since that time. At present three departments offer courses in civil, electrical, and mechanical engineering leading to the degree of Bachelor of Science in these branches of engineering. These three departments constitute the College of Engineering.

CIVIL ENGINEERING

The civil engineer's field of work may be divided into four major divisions: sanitary—dealing with water works, sewerage systems, and garbage disposal; hydraulic—interested in flood control, river improvement, irrigation, drainage, and water power; transportation—concerned with railroads, airports, highways, waterways, park systems, traffic control, and city planning; and structural—dealing with bridges, buildings, foundations, dams, tunnels, tanks, bins, and various industrial structures. His function is chiefly one of design and construction, although often it includes maintenance. In order to train a student in these various lines of effort, the following equipment is provided.

HIGHWAY MATERIALS: Complete equipment is available for the preparation and routine testing of aggregates, cement, and bituminous materials. There is also a Hubbard stability machine for additional tests.

SANITARY ENGINEERING: In the sanitary laboratory there is a complete equipment for performing the physical, chemical, bacteriological, and microscopic tests as outlined by the American Public Health Association. Different types of water current meters are available for work in stream gaging.

SOIL TESTING: This laboratory is fully equipped to carry out the experiments generally used in testing soil for highway purposes.

CEMENT TESTING: There is available complete equipment for the testing of cement and aggregates, such as an automatic shot-testing machine, flow table, Ro-Tap sieve shaker, a two-hundred-thousand-pound hydraulic compression machine, and other necessary supplies.

SURVEYING: For use in the courses in surveying there are thirteen transits, twenty-one levels, a precise theodolite and a precise level, three plane table outfits, solar attachments, sextants, compasses, barometers, and other light equipment.

STRESS ANALYSIS: Advanced work in stresses is carried on by means of a large-sized Begg's deformer and photoelastic equipment.

GENERAL ENGINEERING MATERIALS: This laboratory, housed in the Civil Engineering Building, contains the equipment necessary to give undergraduate and graduate instruction in the determination of the physical properties of materials. In the laboratory are two universal testing machines, torsion, fatigue, and impact machines, a proving ring, several hardness testers, and an exceptionally complete set of accessories and small instruments for the determination of the stress-deformation characteristics of steel, wood, and concrete.

ELECTRICAL ENGINEERING

The field of electrical engineering covers the generation, transmission, distribution, and utilization of electrical energy: steam and hydroelectric generating stations; transmission system; distribution circuits; communication by wire, radio, and television; transportation on land, sea, and air; illumination and manufacturing applications.

THE ELECTRICAL MACHINERY LABORATORY receives its electric power from the Duke Power Company over a 2300-volt, 60-cycle, three-phase line. The equipment includes a-c to d-c motor-generator set and an Ignitron rectifier for supplying the laboratory with direct current, four direct-connected d-c to d-c motor-generator sets; two d-c to a-c belted sets; a G.E. sine wave motor-generator set; a Westinghouse phase-displacement dynamometer; a General Electric type a-c-d-c synchronous converter, for one-, two-, three-, or six-phase operation; numerous single-phase constant-potential transformers; a three-phase transformer; a constant-current transformer equipped with a typical load of series street lamps; a high-current testing transformer; three-phase induction regulators; numerous loading devices, both electrical and mechanical; a number of representative d-c and a-c motors and generators; complete equipment for testing a large variety of fractional-horsepower motors. In addition, the equipment includes a complete line of indicating, recording, and graphic measuring instruments for both general testing purposes and precision measurements, and three oscillographs with accessories for viewing and photographing wave forms.

THE COMMUNICATIONS LABORATORY is exceptionally well equipped and contains complete apparatus for carrying out all kinds of communication experiments at both audio and radio frequencies. The audio-frequency equipment includes a 200-mile open-wire artificial telephone line, a vacuum tube amplifier-milliammeter-voltmeter, 6-A transmission measuring set, vacuum tube oscillators, calibrated for frequencies ranging from 25 to 100,000 cycles per second, a 1,000-cycle motor-generator, a direct reading frequency meter reading from 20 to 20,000 cycles per second; impedance bridges for both audio and intermediate frequencies; standards of resistance, inductance, and capacitance; filters of various kinds; a high quality amplifier, power amplifiers, loud-speakers, noise meter, and other instruments for general test purposes. A complete Automatic Electric Company telephone exchange is included in this laboratory. The radio-frequency equipment consists of short wave and broadcast receivers, precision wave meter, automatic field strength recorder, field intensity meter, standard signal generator, cathode-ray oscillographs, an RCA dynamic demonstrator, an RCA Rider Chanalyst, a square-wave generator, thermo-couples for current and voltage determinations, condensers, inductors, and meters. Equipment for performing experiments in the ultra-high frequency region also is provided.

THE ELECTRONICS LABORATORY, adjoining the Communications Laboratory, is completely equipped for studies of vacuum tubes and vacuum tube circuits: power supply units, special high resistance meters, oscil-

lators, vacuum tube voltmeters, thermo-couples, etc. Equipment which will ultimately be the nucleus of an industrial electronics laboratory has recently been acquired.

THE STANDARDIZING LABORATORY is equipped with standard instruments for the purpose of checking and calibrating meters used in any of the other laboratories.

THE HIGH VOLTAGE LABORATORY, housed in a separate building adjacent to the other electrical laboratories, provides equipment for high-voltage testing and experimentation. A 10-KVA G. E. transformer provides for 60-cycle testing up to 100,000 volts. A surge ("man-made lightning") generator composed of twenty-five 20-KV G. E. capacitors provides 500,000-volt surges for determining the effect of lightning strokes on electrical apparatus. Complete auxiliary equipment is available for control and measurement of the observed phenomena.

THE ILLUMINATION LABORATORY is equipped with a variety of instruments for the measurement of illumination intensity, and provides facilities for special tests.

THE PROJECTS LABORATORY is set aside for the use of students who are working on special projects requiring set-ups which cannot be disturbed by regular laboratory experiments. This laboratory is made available to Seniors who elect projects course 173-174.

THE ELECTRICAL CIRCUITS LABORATORY is equipped with all necessary apparatus and instruments for carrying out experiments on direct current and alternating current circuits, such as studies of various types of meters, resistance and conductivity measurements, storage batteries, magnetic measurements, series and parallel circuits, power factor, etc.

THE AMATEUR RADIO STATION, W4AHY, is equipped with a 75-watt crystal-controlled C. W. transmitter, a Collins 30FXB 100-watt phone transmitter, Hammarlund Pro receiver, National SW5 receiver, a pair of RCA transceivers, and necessary testing and measuring equipment. The station is controlled and operated by the Engineers' Radio Association.

MECHANICAL ENGINEERING

Mechanical engineering as a profession is concerned with power and machines to generate power and to apply it to useful ends. A field so broad includes all lines of industry, but among the special fields in which mechanical engineers are engaged are combustion or power production engineering, machine and machine-tool design, railway motive power, automotive engineering, aviation engineering, refrigeration, air conditioning, and industrial management.

In order to lay a foundation for a successful career in mechanical engineering, it is necessary to provide a tie between theory and practice. To become familiar with engineering apparatus and instruments as well as their testing and calibration. Laboratory work is therefore necessary. The equipment in the Mechanical, Materials Processing, and Aeronautics laboratories has been carefully arranged in a number of groups, to serve the needs of the undergraduate for efficiently carrying out the program indicated above.

BRANSON MECHANICAL LABORATORY

Boiler Room. The boiler room contains a one-hundred horsepower oil-fired boiler with complete accessories and controls by which it may be operated by students, providing steam for all steam experiments and tests.

Steam Equipment. Conveniently located adjacent to the boiler room are a Troy horizontal self-oiling automatic steam engine, a Troy vertical throttling governor steam engine, and a Sturtevant steam turbine, together with brakes and accessories for their complete testing, either as units or as components in a small-scale power plant. Equipment for studying flow and quality of steam, and injector, and an arrangement for the study and testing of steam traps are included in this group.

Air Compression. An electrically driven 12 x 10 Ingersoll-Rand air compressor has been arranged with accessories and instruments for testing it, and, in addition, provides means for studying the flow of high-pressure air through pipes, valves, and fittings.

Internal Combustion Equipment. Automobile and Diesel engines connected to electric and hydraulic dynamometers and generators are part of this laboratory. Appropriate instruments are provided for the determination of capacity, mechanical and thermal efficiency and heat balance in each case.

Hydraulic Apparatus. A Cameron centrifugal pump driven by a variable speed motor provides for a very complete determination of capacity and efficiency tests, as well as being a controllable source of water for tests covering hydraulics as applied to mechanical engineering.

Instrument Room. An instrument room is provided for the storing and maintenance of instruments used in the laboratories. These instruments include: steam engine and internal combustion engine indicators and reducing motions, tachometers and speed counters, planimeters, pressure gauges and calibrating equipment, thermometers of all types, scales, and small tools.

Lubricants and Fuels Testing Laboratory. There are complete facilities for proximate analyses and calorific determination of solid, liquid, and gaseous fuels, as well as for all the standard tests of lubricants.

Additional equipment provides adequately for boiler feedwater analysis, study of the flow of water through pipes and fittings, blower testing, and flow of air through ducts, and a number of tests in the field of air conditioning.

MATERIALS PROCESSING LABORATORY

Machine Tools. Two engine lathes, a universal milling machine, a shaper with slotting attachment, a drill press, a power grinder, and a power hack saw compose the metal-working tools. Such auxiliary attachments as are needed for general purpose machines are provided for the above machine tools. Woodworking machines including a lathe, band saw, circular saw and planer, and a disc sander are available for pattern and wind tunnel model construction.

Welding Equipment. A 200-ampere electric arc welding machine

and complete oxy-acetylene welding and cutting equipment are provided for demonstration of these methods of construction and fabrication.

Casting Equipment. A gas-fired melting furnace and sufficient molding equipment are available for the production of small castings on a demonstration basis.

Metallographic and Heat Treating Equipment. Polishing equipment and a microscope are available for the preparation and examination of metal specimens. Heat treatments may be carried out with the use of a gas-fired heat-treating furnace.

AERONAUTICS LABORATORY

Wind Tunnel. The wind tunnel is of the closed throat type with a 24" circular working section. The air speed through the working section is 140 m.p.h. A standard suspension system is employed for the models, permitting computation of lift, drag, and pitching moment.

Engine Test Cell. The engine test cell has been developed around a four-cylinder opposed type air-cooled engine. The engine is fitted with a club propeller and cradle mounted for torque measurements. Complete tests can be made for heat balance, engine cooling, and altitude effect.

Engine Bay. To meet CPT requirements for the secondary flight training program, a group of representative engines has been collected. These include both liquid- and air-cooled types. Assembly and disassembly of these engines by the students in the CPT course permits the engineering students to make close examination of the important engineering features of the engines.

Structural and General Exhibits. For joint use of the engineering students and the CPT students a collection of typical aircraft structures and instruments has been made. This collection includes airplane fuselages, wing panels, tail assemblies, propellers, and flight and engine instruments.

GENERAL FACILITIES OF THE COLLEGE OF ENGINEERING

The Engineering Library, housed in Asbury Building, provides a total of approximately 8,500 volumes in the field of engineering and its allied subjects. A collection of approximately 1,600 engineering periodicals is constantly expanding through the receipt of current issues. Engineering students also have full access to the General University Library, the Woman's College Library, and the various specialized departmental libraries.

The Drafting Rooms. Three separate well-lighted drafting rooms facilitate work in the various courses in which graphic methods are taught and employed. Additional facilities include a standard machine for producing both blue-prints and white-prints.

The Photographic Dark Room provides complete facilities for processing a wide variety of photographic materials used to supplement course instruction.

ADMISSION TO COLLEGE

GENERAL REGULATIONS

Admission to the College of Engineering of Duke University is on a selective basis, dependent upon the ability, attainments, and character of the applicant. No student is admitted until the Council on Admissions has received for him a scholastic record from school or college, a certificate of vaccination and of good health, and satisfactory evidence of good character and ability. Prospective students and relatives are invited to visit the University and the College of Engineering in particular. This would be advantageous to the applicant since it would enable him to acquaint himself with the facilities of the University, and to discuss possible courses of study.

Certain days are announced in the University Calendar each year for the registration, classification, and sectioning of students. Those students who are admitted later than the dates announced must pay to the Treasurer \$5.00 additional for the privilege of matriculating.

All correspondence relating to admission of men should be addressed to the Secretary of Duke University, Duke Station, Durham, N. C.

ADMISSION TO THE COLLEGE OF ENGINEERING

An applicant for admission to the Freshman Class in engineering must have completed at least fifteen units of preparatory work, partly in required and partly in elective subjects. A unit represents a year of work in a subject in an accredited secondary school, provided the work done in that subject is approximately one fourth of the annual amount of work regularly required in the school.

The subjects in which this credit may be offered and the maximum amount of credit acceptable in each subject are given in the following table:

UNITS		UNITS	
English	4	Botany	1
Latin	4	Zoology	1
Greek	3	General Biology	1
German	3	Physical Geography	1
French	3	General Science	1
Spanish	3	Agriculture	2
Mathematics	4	Mechanical Drawing	2
History and Civics	4	Woodwork, Forging, and	
Physics	1	Machine Work	2
Chemistry	1	Household Economics	2
		Commercial Subjects	3

For a detailed explanation of the units in the table above, see the definitions as set forth by the Southern Association of Colleges and Secondary Schools and other regional associations.

ADMISSION BY CERTIFICATE

Applicants able to submit certificates of proficiency from accredited schools in subjects accepted for admission to the Freshman Class will be admitted without examination. These certificates must be properly made out on the regular blanks furnished by the University, signed by the principal of the school from which the applicant comes, and presented before or at the opening of the academic year. The applicant must have completed the course of the school from which he comes.

At least nine and one half of the fifteen units required for admission must come from the following:

Required Units

English	3 units
A Foreign Language	2 units
*Science	1 unit
History	1 unit
†Algebra	1½ or 2 units
Plane Geometry	1 unit

Elective Units

In addition to the above required units, sufficient elective units must be offered to make a total of fifteen. It is recommended that these electives be chosen from the following list:

Algebra	½ unit
Solid Geometry	½ unit
Trigonometry	½ unit
†German or French or Latin or Spanish or Greek	1 to 4 units
History or Civics (not the required unit)	1 to 3 units
Physics or Chemistry or Biology (not the required unit)	1 to 3 units

ADMISSION BY EXAMINATION

Students who present fifteen units for admission from schools not accredited by the University, and students who present the proper units but whose grades are not acceptable, are required to validate their units by entrance examinations in English and in mathematics, and such other tests as the University may prescribe, including the test required by the North Carolina College Conference.

Students who have not the required units in English or in mathematics but who are otherwise acceptable must, before admission, clear this deficiency by entrance examinations.

* Wherever possible, physics or chemistry should be offered for this requirement.

† Examination required to validate offering.

‡ One elective unit in any of the above languages will be accepted for admission provided the language requirement has been satisfied without it. As many as four units will be accepted in any one of these languages.

ADMISSION TO ADVANCED STANDING

Students may be admitted to advanced standing from other approved institutions under the following conditions: all applicants must have fulfilled the equivalent of the requirements for admission to the Freshman Class, must present official certificates of all work done in other institutions, and have honorable dismissal from the institutions they previously attended.

Applicants for advanced standing should present, so far as possible, subjects corresponding to those required at Duke University. Students admitted to advanced standing may not during their first semester elect more than the minimum number of hours required of the class which they enter except by permission of the Dean. Further, in addition to other requirements, a minimum of one full year in residence at Duke University with the satisfactory completion of at least thirty semester hours of work approved for Seniors, with an average grade of "C," is required of all candidates for the Bachelor's degree.

Students who have transferred from other colleges must, in order to make their provisional classification final, pass during their first year of residence not less than the equivalent of four year courses with an average grade of "C" or higher.

The date for the registration and classification of students with advanced standing from other institutions is announced in the University Calendar. Students who are admitted later than this date are required to pay to the Treasurer \$5.00 additional for the privilege of matriculating.

FRESHMAN WEEK

The week immediately preceding the opening of College is set aside for the induction of Freshmen. During this period health examinations, psychological tests, and placement tests are given in English and mathematics. Sectioning in these two subjects are based on the grade made on the placement tests. The Freshmen are divided into groups for instruction in the use of the Library, in the regulations of the student body, and in all matters pertaining to the adjustment of the individual to a new environment. Attendance upon these exercises is required of all Freshmen.

SPECIAL STUDENTS

Students of mature age not fully prepared to enter the Freshman Class may be admitted as special students and allowed to enroll for such work as they are prepared to carry. Further, they are required to take fifteen hours of classwork a week.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE IN CIVIL, ELECTRICAL, OR MECHANICAL ENGINEERING

GENERAL STATEMENT

The studies for the degree of Bachelor of Science in Civil, Electrical, or Mechanical Engineering are designed for students who are preparing for civil, electrical, and mechanical or aeronautical engineering as a profession, and lead to the following degrees: B.S. in C.E., B.S. in E.E., and B.S. in M.E. All curricula of the College of Engineering are fully accredited by the Engineers' Council for Professional Development, recognized accrediting agency in the field of engineering education.

Each of these degrees requires one hundred and thirty-eight semester hours of work of which one hundred and twenty must be completed with an average grade of "C." If a foreign language is elected, it must be taken two years unless a student has sufficient entrance credits to enable him to pursue a more advanced course.

Prospective students should note that immediately after the final examination in May or June a three weeks' course in surveying is given under the direction of the Summer Session. This course is required of all civil engineering students at the end of their Freshman year and is required of all other engineering students before graduation.

The curricula outlined below are the prewar curricula of the Duke University College of Engineering. Since September, 1942, varying degrees of modification have been in effect, depending on the wishes of the United States armed services. With the start of the Navy College Training Program on July 1, 1943, a gradual transition into certain curricula outlined by the Navy was begun. For the duration of the Navy College Training Program at Duke University, certain curricula described in Navy V-12 Bulletin No. 101 will be offered in place of those described below. A table showing equivalent Navy V-12 courses which may be accepted as credit toward a degree of Bachelor of Science in Civil, Electrical, or Mechanical Engineering is printed on page 23 of this bulletin.

GROUPS OF STUDIES FOR THE DEGREE OF BACHELOR OF SCIENCE IN CIVIL, ELECTRICAL, OR MECHANICAL ENGINEERING

GROUP I

CIVIL ENGINEERING

Freshman Year

FIRST SEMESTER		SECOND SEMESTER	
	S.H.		S.H.
Mathematics 9	5	Mathematics 10	5
Chemistry 1	4	Chemistry 2	4
English 1	3	English 2	3
Physics 17	3	Physics 18	3
Drawing G. E. 1	2	Drawing G. E. 2	2
Physical Education		Physical Education	
	17		17

Three weeks of Surveying S60 in summer. Credit, 3 semester hours.

Sophomore Year

Mathematics 59	4	Mathematics 60	4
Physics 57	3	Physics 58	3
Economics 51	3	Economics 52	3
Statics G. E. 57	3	Kinetics G. E. 58	3
Surveying 61	2	Steam Engineering M. E. 55	2
Route Surveying 63	2	Route Surveying 64	2
Physical Education		Physical Education	
	17		17

Junior Year

Strength of Materials 107	3	Hydraulics 128	3
Structures 131	4	Structures 132	4
Highways 115	3	Materials 118	3
Electrical Engineering 153	3	Electrical Engineering 154	3
Elective	3	Elective	3
	16		16

Senior Year

Sanitary Engg. 123	4	Sanitary Engg. 124	3
Concrete 133	3	Concrete 134	3
Railroads 119	3	Astronomy-Navigation 112	3
Heat Power M. E. 103	3	Heat Power M. E. 104	3
M. E. Lab. 115	1	M. E. Lab 116	1
Elective	3	C. E. Project 143	3
	17	Elective	2
			18

GROUP II

ELECTRICAL ENGINEERING

Freshman Year

FIRST SEMESTER		SECOND SEMESTER	
	S.H.		S.H.
Mathematics 9	5	Mathematics 10	5
Chemistry 1	4	Chemistry 2	4
English 1	3	English 2	3
Physics 17	3	Physics 18	3
Drawing 1	2	Drawing 2	2
Physical Education		Physical Education	
	<hr/> 17		<hr/> 17

Three weeks of Surveying S60 in summer. Credit, 3 semester hours.

Sophomore Year

Mathematics 59	4	Mathematics 60	4
Physics 57	3	Physics 58	3
Statics 57	3	Kinetics-Mechanism 52	4
Electrical Engineering 51	3	Electrical Engineering 52	3
Economics 51	3	Economics 52	3
Steam Engineering 55	2	Physical Education	
Physical Education			<hr/>
	<hr/> 18		<hr/> 17

Junior Year

Theory of D. C. Circuits 151	4	Theory of A. C. Circuits 152	3
Hydraulics 128	3	Strength of Materials 107-109	4
Electrical Circuits Lab. 161	1	Electrical Circuits Lab. 162	1
Heat Power Engineering 103	3	Heat Power Engineering 104	3
Mathematics 131	3	Electrical Measurements 104	3
Mechanical Engineering		Mechanical Engineering	
Laboratory 115	1	Laboratory 116	1
	<hr/> 15		<hr/> 15

Senior Year

A. C. Machinery 257	3	A. C. Machinery 258	3
Electric Power Trans. 159	3	Electric Power Stations 158	2
Communication 261	3	Communication 262	4
D. C. Machinery 155	2	Seminar 166	1
Electrical Machinery		Electrical Machinery	
Laboratory 163	1	Laboratory 164	1
Seminar 165	1	Electives	6
Electives	6		<hr/>
	<hr/> 19		<hr/> 17

In conformance with the wishes of the United States armed services, during wartime the curriculum in electrical engineering will emphasize particularly those aspects of theory and practice which are encountered principally in the field of electrical communications. Since September,

1942, the Senior curriculum has been modified to include intensive additional classroom and laboratory training in radio, with particular reference to ultra-high frequency techniques.

GROUP III

MECHANICAL ENGINEERING

Freshman Year

FIRST SEMESTER		SECOND SEMESTER	
	S.H.		S.H.
Mathematics 9	5	Mathematics 10	5
Chemistry 1	4	Chemistry 2	4
English 1	3	English 2	3
Physics 17	3	Physics 18	3
Drawing 1	2	Drawing 2	2
Physical Education		Physical Education	
	<hr/> 17		<hr/> 17

Three weeks of Surveying S60 in summer. Credit, 3 semester hours.

Sophomore Year

Mathematics 59	4	Mathematics 60	4
Physics 57	3	Physics 58	3
Statics, G. E. 57	3	Kinetics-Mechanism 54	5
Const. Processes 51	3	Steam Engineering 55	2
Economics 51	3	Economics 52	3
Physical Education		Physical Education	
	<hr/> 16		<hr/> 17

Junior Year

Fluid Mechanics 105	3	Machine Design 150	3
Str. of Materials 107-109	4	Aeronautics 108	3
Electrical Engg. 153	3	Electrical Engg. 154	3
Thermodynamics 101	3	Thermodynamics 102	3
M. E. Lab. 113	1	M. E. Lab. 114	2
Elective	3	Elective	3
	<hr/> 17		<hr/> 17

Senior Year

<i>Mechanical Option</i>			
Machine Design 151	3	Industrial Engg. 158	3
Int. Comb. Eng. 155	3	Power Plants 162	3
Heating and Air Cond. 153	3	Refrigeration 154	3
M. E. Lab. 159	2	M. E. Lab. 160	2
Seminar 199	1	Seminar 200	1
Electives	5	Electives	5
	<hr/> 17		<hr/> 17

Aeronautics Option

Machine Design 151	3	Industrial Engg. 158	3
Int. Comb. Eng. 155	3	Airplane Design 172	3
Airplane Design 171	3	Airplane Engines 156	3
Aerodynamics 173	2	Aerodynamics 174	2
M. E. Lab. 159	2	Aeronautics Lab. 176	2
Seminar 199	1	Seminar 200	1
Elective	3	Elective	3
	<hr/> 17		<hr/> 17

Note: The Aeronautics Option for Senior Mechanical Engineering students will not be offered while the Navy College Training Program is in operation.

NAVY V-12 COURSES

Navy V-12 courses may be substituted for College of Engineering courses as indicated below:

COLLEGE OF ENGINEERING

- G.E. 1-2. Engineering Drawing.
 G.E. 57. Statics.
 G.E. 58. Kinetics.
 G.E. 107. Strength of Materials.
 G.E. 109. Strength of Materials Lab.
 G.E. 128. Hydraulics.
 C.E. S60. Plane Surveying.
 C.E. 63-64. Route Surveying.
 C.E. 112. Practical Astronomy and Navigation.
 C.E. 115. Highway Engineering.
 C.E. 118. Materials of Engineering.
 C.E. 123-124. Sanitary Engineering.
 (b) Public Water Supply.
 (c) Sewerage.
 C.E. 131. Steel Structures—Stresses.
 C. E. 132. Steel Structures—Design.
 C.E. 133. Reinforced Concrete.
 C.E. 134. Advanced Reinforced Concrete.
 C.E. 135. Soils and Foundations.
 E.E. 51-52. Survey of Electrical Engineering.
 E.E. 151. Theory of Direct Current Circuits.
 E.E. 152. Theory of Alternating Current Circuits.
 E.E. 153-154. Principles of Electrical Engineering.

N V-12

- N D1. Engineering Drawing.
 N D2. Descriptive Geometry.
 N A1. Analytical Mechanics—Statics.
 N A2. Analytical Mechanics—Dynamics.
 N CE3. Strength of Materials.
 N CE4a. Strength of Materials Lab.
 N CE6. Fluid Mechanics.
 N CE1. Plane Surveying.
 N CE10. Curves and Earthwork.
 N Math. M8. Elementary Navigation and Nautical Astronomy.
 N CE17. Highway Engineering.
 N CE4. Strength of Materials Lab. I.
 N CE14. Water Supply.
 N CE13. Sanitary Engineering.
 N CE7. Structures I.—Structural Analysis.
 N CE9.+ Structures III.—Elementary Structural Design in Steel and Wood.
 N CE8. Structures II.—Theory of Reinforced Concrete.
 N CE11.—Structures IV.—Concrete Structures and Foundations.
 N CE15. Soil Mechanics.
 N EE1. Electricity and Magnetism.
 N EE3. Electric and Magnetic Circuits I.
 N EE4. Electric and Magnetic Circuits II.
 N EE10, 11. Electrical Engineering I—Direct-Current Apparatus and Circuits.

	Electrical Engineering II— Alternating-Current Apparatus and Circuits.
E.E. 155. Direct Current Machinery.	N EE12a. Direct-Current Machinery and Storage Batteries.
E.E. 161-162. Electrical Circuits Lab.	N EE3-4. Electric and Magnetic Circuits I and II.
E.E. 163-164. Electrical Machinery Lab.	N EE15. Electrical Engineering Lab.
E.E. 202. Fundamentals of Radio.	N EE(5a-6a). Electron Tubes and Circuits Ia and IIa.
E.E. 257-258. Alternating Current Machinery.	N EE13a. Alternating-Current Machinery Ia.
E.E. 261. Communication Engineer- ing, Audio Frequency.	N EE7. High-Frequency Circuits I.
E.E. 262. Communication Engineer- ing, Radio Frequency.	N EE8. High-Frequency Circuits II.
M.E. 51. Constructive Processes.	N ME. Mechanical Processes.
M.E. 52. Kinetics-Mechanism.	N A1. Analytical Mechanics I— Statics.
M.E. 54. Kinetics-Mechanism.	N ME1. Kinematics.
M.E. 55. Steam Engineering.	N A1. Analytical Mechanics I— Statics.
M.E. 101-102. Engineering Thermo- dynamics.	N ME1. Kinematics.
M.E. 103-104. Heat Power Engineer- ing.	N ME2. Elementary Heat Power.
M.E. 105. Fluid Mechanics.	N ME4. Thermodynamics I.
M.E. 108. Aeronautics.	N ME4a. Thermodynamics Ia.
M.E. 113-114. Junior Mechanical Engineering Laboratory.	N ME3a. Heat Power Ia
M.E. 115-116. Junior Mechanical Engineering Laboratory.	N CE6. Fluid Mechanics.
M.E. 150-151. Machine Design.	N ME14. Aerodynamics.
M.E. 154. Refrigeration Engineering.	N CE6. Fluid Mechanics.
M.E. 155. Internal Combustion Engines.	N ME3a. Heat Power Ia.
M.E. 158. Industrial Engineering.	N ME15, 16. Mechanical Design I, II.
M.E. 159. Senior Mechanical Engi- neering Laboratory.	N ME13. Refrigeration.
M.E. 160. Senior Mechanical Engi- neering Laboratory.	N ME11. Heat Power II—Internal- Combustion Engines.
M.E. 162. Power Plant Calculations.	N GE3. Industrial Organization.
	N ME10. Naval Machinery.
	N ME11. Heat Power II—Internal- Combustion Engines.
	N ME12. Heat Power III—Steam Power.
	N ME10. Naval Machinery.

COURSES OF INSTRUCTION

COLLEGE OF ENGINEERING

NOTE: Courses primarily for Freshmen and Sophomores are numbered from 1 to 99; those primarily for Juniors and Seniors from 100 to 199; those primarily for Seniors and graduates from 200 to 299. The amount of credit for each course is given in semester hours following the description of the course.

The designation (w) or (E) indicates that the course is to be given on the West Campus or on the East Campus. The designation (w & E) indicates that the course will be given on each campus.

Odd-numbered courses are offered in the fall semester and even-numbered courses are offered in the spring semester. Double numbers indicate that the course is a year course and must be continued throughout the year if credit is received.

GENERAL ENGINEERING

1-2. Engineering Drawing.—The study of mechanical drawing with emphasis on drawing parts, elementary machines, dimensioning, and working drawings; pencil and ink technique; elementary drawing board geometry, including point line and plane relations, and elementary work in developments and intersections. 4 s.h. (E) STAFF

5. Descriptive Geometry.—The study of drawing board problems involving point, line, and plane relationships; development of solids; intersections of solids and concurrent noncoplanar forces, with emphasis on practical applications. 2 s.h. (E) STAFF

51-52. Technical Drawing.—For liberal arts students in training for war service, either military or civil. Elementary principles of machine, structural, and topographic drawing. Nine laboratory hours. 6 s.h. (E)

ASSISTANT PROFESSOR L. HALL

57. Statics.—Concurrent forces, parallel forces, nonconcurrent and non-parallel forces, centroids, friction, moment of inertia. Prerequisites: course G. E. 1-2, Mathematics 9 and 10. 3 s.h. (E) STAFF

58. Kinetics.—Translation, rotation, work, energy, and momentum. Prerequisites: course G. E. 57 and Mathematics 59. 3 s.h. (E) STAFF

107. Strength of Materials.—Elastic bodies under stress; flexure of simple overhanging, fixed, and continuous beams; columns; combined stresses, etc. For Civil Engineering students the laboratory work is included in course 118. Other students should take course G. E. 109 for laboratory. Prerequisite: course G. E. 57. 3 s.h. (E) STAFF

109. Strength of Materials Laboratory.—Concurrent with course G. E. 107. 1 s.h. (E) Either semester. STAFF

128. Hydraulics.—Hydrostatics; flow of water through orifices, weirs, pipes, and open channels; general principles of water wheels and turbines. Prerequisite: course G. E. 57. 3 s.h. (E) Either semester. STAFF

151-152. Elements of Cartography.—For liberal arts students in training for war service, either military or civil.

Development and uses of maps and charts; scales, symbols, contours, and profiles; construction of projections; field and office computations, and control plotting; sources for compilation, and the applications of aerial photography; preliminary and final drafting, and reproduction. One-hour class and six laboratory hours. 6 s.h. (E) ASSISTANT PROFESSOR L. HALL

CIVIL ENGINEERING

PROFESSORS BIRD AND HALL; MESSRS. PALMER AND WILLIAMS

S60. Plane Surveying.—Use of instruments; transit, stadia, compass, and plane table surveying; simple triangulation; determination of meridian by observation on Polaris; differential and profile leveling; setting grade stakes; calculation of bearings, latitudes, and departures; areas by planimeter; methods of plotting, survey and plot of sections of the campus by stadia, and transit and tape. Eight hours a day, three weeks, Summer Session. Prerequisites: course G. E. 1 and trigonometry. 3 s.h. (E) STAFF

61. Higher Surveying.—Care and adjustment of instruments; topographical surveying; surveys and resurveys; laying out and division of land; public land system; further calculations, omitted measurements, areas by double longitude; quantities from profiles and cross sections. Prerequisite: course S60. 2 or 3 s.h. (E) MR. WILLIAMS

63-64. Route Surveying.—Thorough drill in the calculation and laying out of simple, compound, and easement curves, widening of curves, vertical curves, setting slope stakes, ordinary earthwork computations, and mass diagrams. Prerequisite: course S60. 4 s.h. (E) STAFF

70. Civil Engineering Drawing.—Elements of topographical and structural drafting. Two three-hour drawing periods. Prerequisite: courses G. E. 1-2. 2 s.h. (E) MR. PALMER

112. Practical Astronomy and Navigation.—Determination of time, longitude, latitude, and azimuth. Pilotage, dead reckoning, celestial navigation. Observations and calculations. Prerequisite: S60 or with the consent of the instructor. 3 s.h. (E) PROFESSOR BIRD

115. Highway Engineering.—Location, construction, and maintenance of roads and pavements; dust prevention; road economics. 3 s.h. (E) PROFESSOR BIRD

118. Materials of Engineering.—Study and testing of materials commonly used in engineering. Prerequisite: course G. E. 107 or concurrent. 3 s.h. (E) MR. WILLIAMS

119. Railroad Engineering.—Differences between highway and railway practice affecting curves and earthwork. Frogs, switches, and crossings. Preliminary and location survey of a railway of sufficient length to secure familiarity with methods of actual practice. Paper location with estimate of cost. Prerequisite: courses 63-64. 3 s.h. (E) PROFESSOR BIRD

120. Railroad Engineering.—Construction and maintenance of track and trackwork, economics, and operating conditions affecting location. Prerequisite: courses 63-64. 2 s.h. (E) PROFESSOR BIRD

123-124. Sanitary Engineering.

(a) **Hydrology.**—Factors affecting precipitation; evaporation from land and water surfaces; relation of precipitation to run-off; estimating run-off; floods and flood flows. Stream gauging.

(b) **Public Water Supply.**—Quantity and quality of water required, hydraulics of wells, reservoirs, works for purification and distribution of water. Standard laboratory tests for chemical and bacteriological examination of water.

(c) **Sewerage.**—Sewerage systems, rainfall and storm water flow, sizes of storm and sanitary sewers, sewage disposal. Standard laboratory tests of sewage. Prerequisite: course G. E. 128. 7 s.h. (E) PROFESSOR HALL

131. Steel Structures—Stresses.—Roofs, parallel chord bridges under all types of loads, inclined top chord bridges, including subdivided panels, wind bracing. Prerequisite: course G. E. 57. 4 s.h. (E) PROFESSOR BIRD

132. Steel Structures—Design.—Built beams, plate girders, tension members, compression members, tension and compression members, end posts, stringers, floor beams, pins, plates, etc. Drafting. Prerequisites: courses G. E. 107 and 131. 4 s.h. (E)
PROFESSOR BIRD

133. Reinforced Concrete.—Theory and design of reinforced concrete beams, slabs, columns. Prerequisite: course G. E. 107. 3 s.h. (E)
PROFESSOR BIRD

134. Advanced Reinforced Concrete.—Retaining walls, foundations, buildings, rigid frames. Prerequisite: courses 133 and 135. 3 s.h. (E)
PROFESSOR BIRD

135. Soils and Foundations.—Fundamental relations and soil classification, Atterberg limits, capillary phenomena and permeability of soils, soil stabilization. Different behavior of granular and plastic soils affecting the foundations of structures, earth pressure against retaining walls. Prerequisite: course G. E. 107. 3 s.h. (E)
PROFESSOR BIRD

137-138. Seminar.—Students are required to make reports and to talk on current engineering literature or on such other topics as may be assigned. 2 s.h. (E)
STAFF

143-144. Projects in Civil Engineering.—This course may be assigned by the Chairman of the Department to certain Seniors who have shown an aptitude for research in one distinct field of civil engineering, in which case it may be substituted for certain general civil engineering courses. 3-6 s.h. (E) Either semester.
STAFF

240. Indeterminate Structures.—Introductory course dealing with the application of theory of least work, deflection, and rotation to indeterminate stresses. Problems are solved analytically, graphically, and by defometer. Prerequisite: course 131 and ability to read French or German. 3 s.h. (E)
PROFESSOR BIRD

ELECTRICAL ENGINEERING

PROFESSOR SEELEY; ASSISTANT PROFESSOR MEIER; MESSRS. KRAYBILL AND VAIL

51-52. Survey of Electrical Engineering.—A general survey course covering the entire field of electrical engineering, intended to give the electrical engineering student a general preview of the subject as a whole. Required of Sophomores. Prerequisites: Freshman mathematics and concurrent physics. 6 s.h. (E)
ASSISTANT PROFESSOR MEIER

104. Electrical Measurements.—Direct-current and low-frequency measurements; theory, calibration, and use of laboratory standards, and of potentiometers, power and energy measuring equipment, instrument transformers. Audio-frequency measurements of impedance, current, and voltage. Two-hour class, three-hour laboratory. Prerequisites: courses 151, 161. E.E. 152, 162 concurrently. 3 s.h. (E)
PROFESSOR SEELEY

151. Theory of Direct Current Circuits.—A course consisting of lectures and recitations covering the fundamental theory of direct current circuits, and electric and magnetic fields. Prerequisites: courses 51-52, Physics 57-58, Mathematics 59, 60. Mathematics 131 should be taken concurrently. 4 s.h. (E)
MR. VAIL

152. Theory of Alternating Current Circuits.—A course covering the algebra of vectors and complex quantities, nonsinusoidal waves, polyphase circuits, harmonics, and unbalanced three-phase circuits. Two-hour class, two-hour computation. Prerequisites: course 151, Mathematics 131. 3 s.h. (E)
MR. VAIL

153-154. Principles of Electrical Engineering.—An elementary course consisting of lectures, recitations, and laboratory covering the principles of direct and alternating current circuits, machinery, and their application, designed especially for students in civil and mechanical engineering. This course includes one three-hour period in the electrical machinery laboratory per week. Prerequisite: Physics 57-58. 6 s.h. (E) MESSRS. KRAYBILL AND VAIL

155. Direct Current Machinery.—A study of the principles which underlie the design and operation of all types of direct current machinery. Prerequisites: courses 151, 161-162. 2 s.h. (E) ASSISTANT PROFESSOR MEIER

156. Electric Transportation.—Construction, operation, and uses of electric equipment in air, land, and sea transportation. Elective. Prerequisites: courses 151, 152, 161-162, or 153-154. 3 s.h. (E) MR. KRAYBILL

157. Industrial Applications of Electrical Equipment.—A course of lectures, demonstrations, and recitations dealing with the basic principles of the utilization of a wide variety of electrical equipment in industrial practice. Industrial control and motor applications with a short review of motor performance. Electronic equipment and applications. Elective. Prerequisite: courses 153-154. 3 s.h. (E) ASSISTANT PROFESSOR MEIER

158. Electric Power Stations.—A course of lectures and recitations pertaining to the design, construction, and operation of electric power stations, both steam and hydraulic. Consideration of prime movers; generating machinery; switchboards; instruments, relays, and protective devices; operation and management; visit to neighboring plants. Prerequisites: courses 151, 152, and M. E. 103-104. 2 s.h. (E) MR. VAIL

159. Electric Power Transmission.—A course of lectures and recitations on the factors involved in the transmission of electrical energy over long distances and the use of hyperbolic functions in the solution of transmission line problems. Two-hour class, two-hour computation. Prerequisites: courses 151, 152. 3 s.h. (E) PROFESSOR SEELEY

161-162. Electrical Circuits Laboratory.—This course provides experimental verification of the theory developed in courses 151 and 152, and should be taken concurrently. Three hours per week. 2 s.h. (E) MR. VAIL

163-164. Electrical Machinery Laboratory.—A study of the technique of testing electrical machines and a thorough analysis of their performance. Concurrent with courses 155, 258. 2 s.h. (E) ASSISTANT PROFESSOR MEIER

165-166. Electrical Engineering Seminar.—Seniors are required to present reports and dissertations on material appearing in current engineering literature. Juniors may participate, but without credit. 2 s.h. (E) MR. VAIL AND STAFF

169. Electron Tubes and Circuits.—Electronic emission, static and dynamic characteristics and rectification, glow discharge tubes, amplifiers and oscillators, typical circuits. Two-hour class, three-hour laboratory. Prerequisites: courses 152, 162. 3 s.h. (E) PROFESSOR SEELEY

173-174. Projects in Electrical Engineering.—Project work may be undertaken only by those who show special aptitude, or who have had previous experience on some problem. The consent of the Chairman of the Department must be obtained before registering. Seniors only. Elective credit. 3-6 s.h. (E) PROFESSOR SEELEY AND STAFF

202. Fundamentals of Radio.—An elementary course covering the principles underlying radio communication, including vacuum tubes, vacuum-tube circuits, oscillating circuits, antennae, radiation, transmission, and reception. Designed especially for civil and mechanical engineering students. Prerequisite: course 153-154. 3 s.h. (E) MR. KRAYBILL

257-258. Alternating Current Machinery.—A course covering the theory underlying the design, construction, and operation of synchronous generators, transformers, polyphase induction and synchronous motors, single-phase motors of all types, converters and rectifiers. Prerequisites: courses 152, 155. **6 s.h. (E)**
ASSISTANT PROFESSOR MEIER

261. Communication Engineering, Audio Frequency.—An advanced course on the principles underlying voice-frequency communication covering nature of speech and sound, wave propagation over metallic circuits, filters; resistance, inductance, capacitance at audio frequencies; transmission characteristics of communication equipment. Two-hour class, three-hour laboratory. Prerequisites: courses 151, 152, and Mathematics 131. **3 s.h. (E)**

PROFESSOR SEELEY, MR. KRAYBILL

262. Communication Engineering, Radio Frequency.—An advanced course on the principles underlying radio communication, covering vacuum tubes, vacuum-tube circuits, oscillating and coupled circuits; antennae, radiation, transmission, reception, and ultra-high frequency techniques. Three-hour class, three-hour laboratory. Prerequisite: course 261. **4 s.h. (E)**

PROFESSOR SEELEY, MR. KRAYBILL

263-264. Mathematical Analysis of Electrical Circuits.—An advanced course on the detailed mathematical analysis of certain circuits used in electrical engineering, with an introduction to the use of operational calculus as applied to electrical circuits. Elective. Prerequisites: courses 151, 152, and Mathematics 131. **6 s.h. (E)**

PROFESSOR SEELEY

MECHANICAL ENGINEERING

PROFESSOR WILBUR; ASSISTANT PROFESSORS HINTON, LEWIS, AND REED;
MESSRS. COOKE, PATTINSON, AND THEISS

51. Constructive Processes.—Recitation course covering fundamentals of metallurgy and general processes of casting, forging, and machining. Demonstrations of basic machining operations are made. Prerequisite: Chemistry 2. **3 s.h. (E)**

MESSRS. COOKE, PATTINSON, AND THEISS

52. Kinetics-Mechanism.—For E. E. Students.—Motions of particles. Applications of Newton's Laws of Motion to motions of rigid bodies, principles of work and energy. Linkages, cams, gears, trains of mechanism. Three recitations, three laboratory hours. Prerequisites: G. E. 2, G. E. 57, Mathematics 59. Mathematics 60 concurrently. **4 s.h. (E)**

ASSISTANT PROFESSORS HINTON, REED AND
MESSRS. PATTINSON AND THEISS

54. Kinetics-Mechanism.—For M. E. Students.—Motions of particles. Applications of Newton's Laws of Motion to motions of rigid bodies; principles of work, energy, impulse and momentum. Linkages, belts, ropes, chains, cams, gears, trains of mechanism. Three recitation hours, six laboratory hours. Prerequisites: G. E. 2, G. E. 57, Mathematics 59. Mathematics 60 concurrently. **5 s.h. (E)**

ASSISTANT PROFESSORS HINTON, REED AND
MESSRS. PATTINSON AND THEISS

55. Steam Engineering.—Elementary principles of boilers, engines, turbines, and auxiliaries; properties of steam; fuels and combustion. Prerequisite: Physics 18. **2 s.h. (E)**

PROFESSOR WILBUR AND MESSRS.
COOKE AND PATTINSON

101-102. Engineering Thermodynamics.—A study of thermodynamic properties and processes of gases, vapor and gas-vapor mixtures; cycles; efficiencies and performance of steam power plant equipment. Three recitations. Prerequisites: M. E. 55, Physics 58, and Mathematics 60. **6 s.h. (E)**

PROFESSOR WILBUR AND ASSISTANT PROFESSOR HINTON

103-104. Heat Power Engineering.—A short course in engineering thermodynamics combined with applications to power plant design. For civil and electrical engineering students. Prerequisites: Mathematics 60, M. E. 55. 6 s.h. (E) ASSISTANT PROFESSOR REED

105. Fluid Mechanics.—Fluid statics; kinematics of fluid flow; application of fluid dynamics theory to flow through orifices, weirs, and pipes; general principles of centrifugal pumps and turbines. Prerequisite: M. E. 54. 3 s.h. (E) PROFESSOR WILBUR AND ASSISTANT PROFESSOR HINTON

108. Aeronautics.—A general course applying fluid mechanics principles to airfoils, propellers, and the complete airplane. Prerequisite: M. E. 105. 3 s.h. (E) MESSRS. PATTINSON AND THEISS

M. E. 113-114. Junior Mechanical Engineering Laboratory.—Open only to M. E. students. First semester, three laboratory hours, devoted to laboratory studies and reports on instruments for mechanical engineering testing; experiments in fluid mechanics. Second semester, six laboratory hours; experiments and reports in thermodynamics, boiler inspection, air compression, injectors, steam and fuel calorimetry, flue gas analysis. Prerequisite: M. E. 55, M. E. 101-102 concurrently. 3 s.h. (E) ASSISTANT PROFESSOR HINTON, MESSRS. COOKE, PATTINSON, AND THEISS

115-116. Junior Mechanical Engineering Laboratory.—For C. E. and E. E. students who are taking M. E. 103-104. Experiments and reports on measuring instruments and apparatus, flow of air, steam and water, economy of boilers, steam and internal combustion engines. Three laboratory hours. 2 s.h. (E) ASSISTANT PROFESSOR HINTON AND MR. PATTINSON

150-151. Machine Design.—Application of principles of Strength of Materials, Constructive Processes, and Engineering Drawing to design of riveted and welded connections, pressure vessels, and machine elements, followed by design of at least one complete machine. Two recitations, three laboratory hours. Prerequisites: G. E. 107, M. E. 51, M. E. 54. 6 s.h. (E) ASSISTANT PROFESSORS HINTON AND REED

153. Heating and Air Conditioning.—Fundamentals of heating and air conditioning, determination of heat losses and gains, design of steam, hot water and warm air heating and air conditioning systems for homes, offices, and industrial buildings. Prerequisites: M. E. 102 or M. E. 104. M. E. 159 concurrently. 3 s.h. (E) ASSISTANT PROFESSOR REED AND MR. COOKE

154. Refrigeration Engineering.—Fundamentals of refrigeration theory and design, with applications in industry. Prerequisites: M. E. 102 or M. E. 104. M. E. 160 concurrently. 3 s.h. (E) ASSISTANT PROFESSOR REED

155. Internal Combustion Engines.—Principal cycles; fuels and fuel mixtures; effect of real mixtures on theoretical cycles; combustion; carburetion and fuel injection. Thermodynamic analysis of engine performance. Modern developments in the internal combustion engine. Three recitations. Prerequisite: M. E. 101-102. 3 s.h. (E) ASSISTANT PROFESSOR HINTON

156. Airplane Engines.—A study of the qualities desirable in an airplane engine and design calculations. These calculations include such items as indicator card, inertia and gas loads, crankshaft vibration, and fin area required for proper cooling. Three recitations. Prerequisite: M. E. 155. 3 s.h. (E) MR. _____

158. Industrial Engineering.—A study of the industrial growth and present tendencies of productive industries as concerns the engineer. Specific topics treated are: plant location; organization; production and cost controls, wage-payment, etc. Seniors only. Three recitations. 3 s.h. (E) MR. THEISS

159. Senior Mechanical Engineering Laboratory.—Tests and reports on performance and economy of internal combustion engines, steam engines and turbines; heat transfer, radiator tests, and heat balances. Required of all Seniors in mechanical engineering. Six laboratory hours. Prerequisite: M. E. 114. 2 s.h. (E) ASSISTANT PROFESSOR HINTON, MESSRS. COOKE AND THEISS

160. Senior Mechanical Engineering Laboratory.—Required of all Mechanical Option Seniors. Tests and reports on boiler, engine, turbine, condenser and accessories; heat transfer; refrigeration equipment. Six laboratory hours. Prerequisite: M. E. 159. M. E. 154, 162 concurrently. 2 s.h. (E) ASSISTANT PROFESSOR HINTON, MESSRS. COOKE AND THEISS

162. Power Plant Calculations.—Study of economic and engineering factors in developing steam power plants. Consideration of the performance of boilers, prime movers, condensers and various auxiliaries in various groupings as they affect the plant heat balance. Three recitations. Prerequisites: M. E. 101-102 or 103-104. 3 s.h. (E) PROFESSOR WILBUR

171-172. Airplane Design.—The design of an airplane to accomplish a specific purpose, this design to include three-view drawing, determination of air and inertia loads, and stress analysis as proof of structure. All work must be in a form acceptable to the Civil Aeronautics Board. Three laboratory periods. Prerequisites: M. E. 150, M. E. 108. M. E. 151 concurrently. 6 s.h. (E) MR. _____

173-174. Aerodynamics.—A review of the physics of air leading into a study of airflow around aerodynamical shapes, this study progressing into an analysis of air forces that terminates in performance estimation. Two recitations. Prerequisites: M. E. 105, M. E. 108. 4 s.h. (E) MR. _____

176. Aeronautics Laboratory.—This course includes performance tests on airplane engines, installation problems and operational characteristics of aircraft instruments, and tests of aerodynamical shapes in the wind tunnel. Two laboratory periods. M. E. 174 concurrently. 2 s.h. (E) MR. _____

197-198. Projects in Mechanical Engineering.—This course may be assigned by the Chairman of the Department to certain Seniors who express a desire for such work and who have shown aptitude for research in one distinct field of mechanical engineering. Elective credit either semester. 3-6 s.h. (E) PROFESSOR WILBUR AND STAFF

199-200. Seminar.—Students are required to make reports and to talk on current engineering literature or on such topics as may be assigned. 2 s.h. (E) STAFF

REQUIRED NONENGINEERING SUBJECTS

1-2. General Inorganic Chemistry.—Lectures, recitations, and laboratory work on the elementary principles of chemistry and on the occurrence, preparation, properties, and uses of the elements and their compounds. It is desirable, though not required, that students taking this course shall have taken elementary physics either in high school or in college. One lecture, two recitations, and three laboratory hours, throughout the year. 8 s.h. (W & E) STAFF

51-52. Principles of Economics.—For Sophomores. 6 s.h. (W & E) PROFESSOR SPENGLER, ASSISTANT PROFESSOR LANDON, DR. GREGORY, MR. VAN VOORHIS

English L.—Those freshmen whose scores in the placement tests are too low to justify their admission into English 1 are required to have credit for English L before they may enter English 1. 3 s.h. (E) DR. HARWELL AND MR. FITZGERALD

1-2. English Composition.—All Freshmen are required to take course 1 and course 2.

Students who fail in English 1 or 2 must repeat the course in the following semester. Students in courses 1 and 2 who fail to make an average of "C" or better are strongly advised to earn credit for English 53 during their Sophomore year. **6 s.h. (w & e)** ASSISTANT PROFESSORS JORDAN AND SANDERS, DR. HARWELL, MESSRS. BRICE AND FITZGERALD

53. English Composition.—A second course in composition for Sophomores. **3 s.h. Repeated in the second semester. (w & e)** STAFF

9-10. First-Year Engineering Mathematics.—College algebra, plane trigonometry, introduction to spherical trigonometry, plane analytic geometry, introduction to solid analytic geometry. **10 s.h. (e)** STAFF

59-60. Second-Year Engineering Mathematics.—Differential and integral calculus. Prerequisite: Mathematics 9-10 or the equivalent. **8 s.h. (e)** STAFF

131. Elementary Differential Equations.—Solution of elementary types; formation and integration of equations arising in applications. Prerequisite: integral calculus. **3 s.h. (e)** STAFF

17-18. Engineering Physics.—A course covering the field of general physics with emphasis on fundamental principles. Open only to engineering students. **6 s.h. (e)** STAFF

57-58. Engineering Physics.—This course is a continuation of Physics 17-18 open to engineering students upon satisfactory completion of 17-18. Two lectures (e) and one three-hour laboratory (w) each week. **6 s.h.** STAFF

104. Electrical Measurements.—Exact measurements of resistance, current, voltage, inductance and capacity. A fundamental course in electrical engineering or course 103 is a prerequisite. Two lectures and one three-hour laboratory period per week. **3 s.h. (w)** ASSOCIATE PROFESSOR CONSTANT

PARTIAL LIST OF RECOMMENDED ELECTIVE SUBJECTS

57-58. (Economics) First-Year Accounting.—Elementary principles of single proprietorship, partnership, and corporation accounting. Supervised laboratory periods will be arranged. **6 s.h. (w)** STAFF

103. (Economics) Transportation.—Essential features, problems, and competitive positions of rail, highway, water, and air transportation. Special attention is devoted to valuation, rates, and regulation as applied to railway transportation. Collateral reading and the preparation of papers are required. *For Juniors and Seniors.* **3 s.h. (w)** ASSISTANT PROFESSOR LANDON

105. (Economics) Industrial Management and Business Forecasting.—A study of the organization and management of industry, with emphasis upon the business applications of the principles developed. Problems of interrelations of functions operating in the several fields of management, such as production control, personnel, and the forecasting of business conditions. *For Juniors.* **3 s.h. (w)** DR. GREGORY

115. (Economics) Economic Geography.—*This course is not open to students who have received credit for Economics A.* The study of the interrelation of human activities and environmental elements. The discussion embraces location, maps and their interpretation, the major climatic regions, seasonal influences, weather, lands and their uses, soils and minerals, bodies of water, plants, animals, and the work of man as environmental factors. **3 s.h. (e)**

ASSISTANT PROFESSOR LEMERT

138. (Economics) Business Statistics.—A semester's course in elementary statistics designed principally for students of economics and business administration. The material is also of interest to those specializing in engineering, forestry, political science, sociology, and other subjects. Very little algebra and no higher mathematics are required. Offered both semesters. **3 s.h.**

ASSISTANT PROFESSOR SMITH

181-182. (Economics) Business Law.—The fundamental principles of law as applied to common business transactions. The topics presented are: contracts, agency, bailments, sales, negotiable instruments, partnerships, corporations, and bankruptcy. **6 s.h. (w)**

MESSRS. BRYSON AND MILLER

123-124. Shakespeare.—**6 s.h. (w)**

ASSISTANT PROFESSOR TALBERT

145-146. English Poetry, 1832-1900.—**6 s.h. (w)**

ASSISTANT PROFESSOR SANDERS

151. (English) Public Speaking.—A course in the fundamentals of public speaking with emphasis upon the effective presentation of ideas. **3 s.h. (w)**

MR. BADENOCH

152. (English) Argumentation.—A course dealing with the principles of argumentation and debating with special emphasis upon brief-making and practice-speaking. Public questions are studied as parallel work. **3 s.h. (w)**

MR. BADENOCH

103. (Botany) General Bacteriology.—Laboratory and lectures. **4 s.h. (w)** First semester. **(E)** Second semester.

PROFESSOR WOLF

51. General Geology.—This course is designed to give a general view of the surface features of the earth, their origin, structure, and materials. Illustrative materials are studied in the laboratory. Excursions are made to neighboring points where the principles of the science are studied in the field. Three one-hour lectures or recitations and one three-hour laboratory. **4 s.h. (w)**

ASSOCIATE PROFESSOR BERRY

52. General Geology.—This course is designed to give some knowledge of the chief events of the earth's history. Excursions will be made to suitable neighboring localities. Three one-hour lectures or recitations and one three-hour laboratory. Prerequisite: Geology 51. **4 s.h. (w)**

ASSOCIATE PROFESSOR BERRY

51-52. History of Art.—The survey course for upperclassmen treats each art as a unit, relating it to its background and its companion arts wherever possible, but leaving many of the problems of correlation to the initiative of the student. The development of architecture is considered in course 51, the development of sculpture and painting in course 52. Courses 51 and 52 are both offered each semester. Credit for a single semester will be given only to Seniors electing it during their last semester. The courses are not open to Freshmen or to students who have had course 1-2. **6 s.h. (w & E)**

MISS AVERILL

219. Electron Tubes and Their Application.—Theory and application of electron tube circuits with special emphasis on their use in scientific research. Two hours of lecture and one three-hour laboratory per week. **3 s.h. (w)**

PROFESSOR NIELSEN

FEES AND EXPENSES

The following tables show the general fees and charges collected from all students and the special fees collected from those taking courses in the sciences and in history. All fees for each semester are due and payable, unless otherwise specified, at the time of registration at the beginning of that semester, and no student is admitted to classes until arrangements have been made with the Treasurer of the University for the settlement of fees.

GENERAL FEES

Matriculation, per semester.....	\$ 25.00
Tuition, per semester.....	100.00
Room-rent—See the detailed statement that follows.	
Athletic Fee, admitting students to all athletic contests held on the University grounds, per semester.....	5.00
Damage Fee, payable annually at the time of first registration.....	1.00
Medical Fee, per semester.....	5.00
Library Fee, per semester.....	5.00
Commencement Fee, payable annually at the beginning of the second semester	3.00
Publication Fee:	
First semester	2.50
Second semester	3.00
Diploma Fee, payable by candidates for degrees at the beginning of the second semester, refunded if the diploma is not awarded.....	5.00
Tuition, Registration, Room-rent, Summer Surveying S10.....	26.00

LABORATORY AND MATERIALS FEES

Botany 1, 2, 52, 55, 104, 202, 204, 221, 255, and 256.....	\$ 2.50
Botany 51, 103, 151, 156, 203, 216, and 252.....	5.00
Forest Botany 224 and 253.....	2.50
Chemistry 1, 2, 61, 70, 131, 132, 153, 154, 215, 216, 261, and 262.....	7.00
Chemistry 151, 152, 241, 242, 253, and 254.....	8.50
Education 1, 58, 68, and 101.....	1.00
Education 112, 115, 116, 122, and 131.....	7.50
Education 208 (for testing materials in lieu of text).....	2.50
Engineering	
Civil S60—See <i>Summer Session Bulletin</i> .	
Civil 61, 63, 64, 112, 118, 119, 120, 123, 124, 135, 143, 144, and 240....	2.00
Electrical 153, 154, 161, 162, 163, 164, 261, 262.....	2.00
General 109.....	2.00
Mechanical 113, 114, 159, 160, 176.....	2.50
Forest Botany 224 and 253.....	2.50
Forestry 224, 253, 254, 259, 260, 264, 357a, and 358a.....	2.50
Forestry 261, 351, 352, 357b, 358b.....	2.50 to 5.00
Geology 51, 52, 101, 151, and 152.....	2.50
Geology 102.....	5.00
Field trip in Geology 51-52 and 101-102 at cost.	
History 91 and 92.....	3.00

No texts are required in these courses, but a fee of \$3.00 is charged, and books are placed in the Library for the use of those taking the courses. This fee is payable at the beginning of the semester and is collected through the office of the Treasurer of the University.

Physics 1 and 2.....	2.00
Physics 57, 58, 61, 62, 103, 104, 108, 215, 216, 217, 218, and 219.....	3.00
Physics 51, 52, and 106.....	5.00
Zoology 1, 2, 92, 161, 204, 219, 220, 222, 274, 306, 324, 343, 353, and 354.....	3.00
Zoology 53, 151, 156, 224, 229, 303 and 321.....	5.00

ESTIMATED EXPENSES FOR AN ACADEMIC YEAR

The necessary expenses of a student are moderate; the University dormitories provide thoroughly comfortable and wholesome living conditions at a minimum of cost, while all charges made by the University have been kept low. Incidental expenses depend naturally upon the tastes and habits of the individual, but the actual necessary college expenses for one year, including board, room-rent, and such University fees as tuition, matriculation, commencement, library, damage, and medical, vary from \$574.50 to \$639.50. Books and laundry are not included in these figures, nor an estimated cost of \$20.00 to \$25.00 for drawing equipment.

The Athletic and Publication fees, also included in the above figures, while not essentially University fees, are at the request of the students collected by the Treasurer of the University as designated above. The proceeds of these fees are turned over to these distinct and separate student activities. The Athletic Fee, entitling the holder to admission to all athletic contests held on the University grounds, is collected from all regularly enrolled students. The Publication Fee pays for a blanket subscription to the semiweekly student newspaper, the monthly student magazine, and the student yearbook. With all undergraduates this charge is compulsory, but in the case of graduate students it is optional.

DORMITORIES

The regular fees for room-rent in the Southgate Building, set aside for engineering students, is \$50.00 per semester (two in a room).

Rooms in Epworth Hall, East Campus, are open to men students for a rental of \$30.00 per student, per semester.

Rooms are reserved only for applicants who have been officially accepted by the University, upon application to the Director in the Business Division, College Station, Durham, North Carolina. A reservation fee of \$25.00 must accompany the application for a room. The reservation fee is deducted from the room charges at the time of registration for the fall semester. An applicant who is accepted and has a room reserved is not entitled to a refund of the reservation fee unless the request is made on or before August 1.

A resident student in order to retain his room for the succeeding year is requested to make application accompanied by a reservation fee of \$25.00 between April 15 and May 15 at the office of the Director in the Business Division. All rooms which have not been reserved on or before May 15 will be considered vacant for the succeeding year and will be reserved in the order in which applications are made.

Rooms are rented for no shorter period than one semester, or in the case of a medical student, one quarter, unless by special arrangement with the Director in the Business Division. A period of occupancy other than

a semester or quarter and without special arrangement will be charged at a minimum rate of \$1.00 each day.

The authorities of Duke University do not assume the responsibility of selecting and assigning roommates, though they will gladly render any assistance possible.

BOARDING ACCOMMODATIONS

It is the policy of the University to furnish board to its students at actual cost. Charges for board are approximately \$30.00 per month.

LAWS REGULATING PAYMENTS

The Executive Committee of the Trustees of Duke University has enacted the following regulations, which govern the payment of all fees due the University:

1. The President and Treasurer of the University have no authority to suspend, or in any way alter, these regulations.
2. Matriculation and tuition fees are never refunded.
3. Any student who has failed to pay his bills on the dates advertised in the catalogue is denied the right to attend classes until his account is settled in full.
4. No student is considered by the Faculty as an applicant for graduation until he has settled with the Treasurer for all of his indebtedness to the University.
5. No student who has not settled all his bills with the Treasurer of the University is allowed to stand the mid-year or final examinations of the academic year.

When a student wishes his bills sent to his parents or guardian, the student or his parent or guardian must so notify the Treasurer of the University in writing in due time, but this in no way releases the student from liability to established penalties if his bills are not paid on the dates advertised.

TRANSCRIPTS

Students desiring to transfer from Duke University to another institution are entitled to one transcript of their record. A charge of \$1.00 is made for each additional copy.

ENGINEERING ORGANIZATIONS AND FRATERNITIES

American Institute of Electrical Engineers; American Society of Civil Engineers; American Society of Mechanical Engineers; Institute of the Aeronautical Sciences; Delta Epsilon Sigma (Duke Honorary Engineering Fraternity); Pi Tau Sigma (National Honorary, Mechanical Engineering); The Engineering Student Government Association.

OTHER ACTIVITIES FOR WHICH ENGINEERS ARE ELIGIBLE

The Young Men's Christian Association is a branch of the national student Christian Association. It aims to enrich not only the religious life of its members as individuals but also to promote religious group activity. Delegates are sent each year to summer conferences, state conventions, interstate conventions, and the state Bible and missionary institutes. Every class is conducted under the auspices of the Church Board.

Other organizations and activities include the following: Debate Council; Duke University Church (Interdenominational); Hoof and Horn Club; Quadrangle Pictures; Student Religious Council; The Duke Players; Town Boys' Club; Wartime Social Activities Board; and W. H. Pegram Chemistry Club.

(HONORARY—NATIONAL)

Phi Beta Kappa (Scholarship); Phi Eta Sigma (Freshman Scholarship); Pi Mu Epsilon (Mathematics); Sigma Pi Sigma (Physics); Sigma Xi (Scientific Society).

(HONORARY—LOCAL)

Beta Omega Sigma (Sophomore—Men); 9019 (Scholarship—Men).

MUSICAL ORGANIZATIONS AND FRATERNITIES

Kappa Kappa Psi (National Band Fraternity); The Duke University Instrumental Music Association, comprised of members from Duke University Band, Duke University Orchestra, and chamber music groups; The Men's Glee Club; The University Chapel Choir.

(SOCIAL FRATERNITIES—NATIONAL)**(The Men's Panhellenic Council)**

Alpha Tau Omega; Beta Theta Pi; Chi Phi; Delta Sigma Phi; Delta Tau Delta; Kappa Alpha; Kappa Sigma; Lambda Chi Alpha; Phi Delta Theta; Phi Kappa Psi; Phi Kappa Sigma; Pi Kappa Alpha; Pi Kappa Phi; Sigma Alpha Epsilon; Sigma Chi; Sigma Nu; Sigma Phi Epsilon; Zeta Beta Tau.

STUDENT PUBLICATIONS**(Publications Council)**

Archive (Monthly); *Chanticleer* (Annual); *Chronicle* (Semiweekly); *Duke Engineer* (Bimonthly).

HONORS AND PRIZES FOR WHICH ENGINEERS ARE ELIGIBLE

To be eligible for Honors, a student must earn during the year a credit of not less than thirty semester hours. Students in the Freshman, Sophomore, and Junior classes who earn an average of at least two and one-half quality points per semester hour are given Honors. All semester hours on which a student receives a grade are counted in the determination of Honors.

The degree of Bachelor of Arts or of Bachelor of Science with distinction is conferred under the following rules:

Students who have completed a minimum of ninety semester hours in Duke University are eligible for general Honors at graduation. Those who earn an average of at least two and one-half quality points per semester hour are recommended for a degree *magna cum laude*. Those who earn an average of at least two and three-fourths quality points per semester hour are recommended for a degree *summa cum laude*. All semester hours taken in Duke University on which a student receives a grade are counted in the determination of Honors.

PRIZES

The Delta Epsilon Sigma Prize, consisting of an engineering handbook, is awarded each year to the member of the Freshman Class in engineering who is adjudged to be the outstanding student.

Julia Dale Prize in Mathematics. This is a prize of books given annually to the undergraduate who shows the greatest proficiency in the study of the calculus.

The Milmore Prize, consisting of one year's subscription to the *Electrical World*, is awarded each year to that student from North or South Carolina graduating in the Department of Electrical Engineering, who, in the opinion of the Faculty of that department and as shown by his grades, has made the most progress in electrical engineering during his last year in college.

The Institute of the Aeronautical Sciences Awards. Two annual awards, each consisting of a two-year paid-up membership in the Institute and a certificate, presented, respectively, to the student presenting the best paper before a meeting of the Duke student branch of the Institute, and to that student of the Department of Mechanical Engineering making the highest scholastic record in aeronautical engineering courses.

The Sigma Xi Prize. The Society of the Sigma Xi, honorary scientific society, is devoted to the encouragement of scientific research, and seeks to stimulate those who show promise of accomplishment in scientific research. As an encouragement to younger men and women the Duke Chapter of Sigma Xi has established the following prizes to be awarded annually to students resident at Duke University: \$20.00 for an undergraduate project or paper, \$20.00 for a Master's thesis or its equivalent, and \$40.00 for a Ph.D. dissertation or its equivalent. Nominations, recommendations, copies of theses, reports, or other material must be in the hands of the Secretary of the Chapter on or before May 5.

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ANNUAL BULLETINS

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BULLETIN
OF
DUKE UNIVERSITY

SUMMER SESSION
ANNOUNCEMENT



1945

FIRST TERM: JUNE 19-JULY 30
SECOND TERM: JULY 31-SEPTEMBER 8

(SPECIAL ANNOUNCEMENT OF COURSES OFFERED
MAY 29-JUNE 18)

DURHAM, NORTH CAROLINA
1945

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DUKE UNIVERSITY SUMMER SESSION

Duke University, located at Durham, North Carolina, includes Trinity College, the Woman's College, the College of Engineering, the Graduate School of Arts and Sciences, the Divinity School, and the Schools of Law, Medicine, Nursing, and Forestry, and the Department of Education. The student body is drawn from the entire United States, with a representative group of foreign students. The enrollment in the summer is somewhat smaller than during the regular year, but with a larger representation of graduate students.

In 1944 there was a total registration of 855 in the Duke University Summer Session, excluding military and naval enrollees of Trinity College and the Engineering College and excluding also the enrollments of the Schools of Medicine and Nursing and of Law. Of these registrations, 660 were enrolled the first term, and 195 the second term. There were 328 graduate students the first term and 104 the second, admitted on the basis of Bachelor's degrees from 145 different colleges and universities. The total enrollment for the summer was drawn from thirty-two states, as well as the District of Columbia, Argentina, Canada, and Ecuador. The largest enrollments were from North Carolina, Pennsylvania, Virginia, West Virginia, Florida, Georgia, Ohio, South Carolina, New York, Alabama, New Jersey, Maryland, and Texas in the order named.

CAMPUS AND BUILDINGS

Duke University is located on two campuses connected by prompt and inexpensive bus service. For the Summer Session of 1945, all classes except graduate courses in Religion will be held on the East Campus unless special statement is made to the contrary. All women, graduate and undergraduate, will room on that campus. This campus is well located with regard to the business section of the city of Durham and has all dormitories, laboratories, classroom buildings, library, auditorium, and administration building conveniently grouped together with the Union, center of student activities, the Government Post Office, and the College Store. Much of the West Campus will be devoted this summer to the training of men for the armed services, but there will be room on that campus for both graduate and undergraduate men.

SCOPE AND PLAN OF WORK: CREDITS

Work is offered with the needs of the following classes of students in mind:

1. Candidates for the Master of Arts (A.M.) and Master of Education (M.Ed.) degrees, particularly teachers, supervisors, and administrators in the public schools who desire to complete degree requirements in a series of summers.

2. College undergraduates—men and women—seeking to hasten completion of Bachelor's degrees. (Special care is taken in advising students who are trying to complete degree requirements within three years by using their time in the summer. This matter has become particularly important in view of the national emergency.)

3. High-school graduates who wish to begin their work in May or June, instead of waiting until the following September.

Instead of the traditional one-hour courses for six weeks that compel the student to divide his time among three separate classes, the work of the Summer Session is divided into units of three semester hours, each class meeting for eighty-five minutes daily, five days per week for a period of six weeks. No student is permitted to obtain credit for more than two such courses, and no instructor teaches more than two. This means that instructor and student alike are limited to two preparations daily instead of three. The Summer Session also encourages students to take both their courses in one department. Undergraduates particularly are encouraged to take complete units of work within six weeks—that is, six semester hours of freshman English, or of second-year Spanish, or of United States History, etc. Elementary science courses are so organized that by taking a heavy laboratory schedule, students may obtain credit for eight semester hours within seven weeks. There is no exception to the rule that the University allows no credit for six weeks beyond six semester hours.

Professional credits towards teachers' certificates are granted by the various state boards of education, each in accordance with its own carefully planned rules. Teachers should consult the rules laid down by their State Board of Education before enrolling for certification credit. Any student, however, whose work is of such quality as to deny him credit toward a degree, fails to receive "professional" credit.

College credits are offered as follows: A course meeting one hour daily for six weeks counts for two semester hours of credit, and a course meeting eighty-five minutes daily for six weeks counts for three semester hours of credit. The University will not accept credit beyond six semester hours earned in one term toward the Bachelor's degree. Graduate students are not under any circumstances permitted to enroll for more than six semester hours in a summer term of six weeks. They forfeit graduate credit by undertaking more than six semester hours of work, even though part of the work may carry undergraduate credit only.

The nature of the credit allowed for each course is indicated by the number of the course. Courses numbered 1-49 are primarily for Freshmen, or Freshman and Sophomores; courses numbered 50-99 are ordinarily for Sophomores, or Sophomores and Juniors; courses numbered 100-199 are for Juniors and Seniors; courses numbered from 200-299 are for Seniors and graduates; and courses numbered from 300 up are for graduate students only and are of very limited enrollment. Courses numbered from 200 up are usually limited in enrollment to approximately

twenty-five students, and during the summer consist almost entirely of graduate students. Graduate seminars are limited to fifteen students or fewer.

COURSES FOR ENTERING FRESHMEN AND FOR UNDERGRADUATES DESIRING TO ACCELERATE THEIR PROGRAM

Freshmen, that is graduates of standard high schools who desire to begin their college work before the fall semester, may enter summer classes and complete within six weeks a full year's work in the subject taken. The "School of Spanish Studies" offers exceptional opportunity for such of these students as desire work in Spanish. General Zoology is also offered for beginning students, whether premedical or simply students desiring to complete their year of required science for the Bachelor of Arts degree. General Physics and Freshman English are the other courses open to Freshmen. Since in connection with the Navy College program the University begins a regular semester July 1, men desiring to enter college should write Mr. Charles E. Jordan, Secretary of the University, as to the regular college program instead of trying to enroll in the Summer Session.

Undergraduate students of the Woman's College and of Trinity College, Duke University, not in the armed services, as well as undergraduates of other colleges desiring summer school courses, will find work both first and second terms of the Summer Session, entirely apart from the Navy College program of the University. This is especially important to those students who lack only six or twelve semester hours of completing their degree work. In order to get the courses they prefer such students should apply promptly.

ADMISSION

Applicants for admission to the Summer Session must meet the same requirements as if they applied in any other part of the University year. Undergraduate men desiring to enter Duke should have transcripts of their courses sent to Mr. H. J. Herring, Dean of Trinity College, and undergraduate women should have transcripts sent to Mrs. Elizabeth A. Persons, Secretary of Admissions to the Woman's College, at least two weeks before the opening of the term for which they wish to enroll, if they wish to be sure of classification before registration day. Until definite acceptance and classification by the Dean's Office they are not regularly enrolled students. Undergraduate students of other colleges should write the Director of Summer Session for a special blank to be signed by the dean of their college certifying approval of the course for which they apply.

If a student wishes to enroll for graduate courses, he should request the proper official at each of the universities or colleges which he has attended to send directly to the Dean of the Graduate School, Duke University, official transcripts of his undergraduate record and of any graduate credits which he may have. A student who has attended more than

one college should note that certification by one institution of work completed at another institution cannot be accepted. In no case will a transcript presented by the candidate himself be accepted as a basis for admission nor will a transcript mailed by an institution be returned to the student. The graduate student should also fill out Graduate School application blanks, which may be obtained from the Graduate School of Arts and Sciences. Transcripts and applications must be furnished the Dean of the Graduate School two weeks before the beginning of the term for which the student wishes to enroll if he is to receive classification before registration day. Students whose credentials are not filed in time to be evaluated before registration day may be admitted provisionally to classes for which they indicate preparation, with the understanding that no credit will be allowed until admission requirements have been met. All such provisional registrations should be cleared within ten days of entrance.

The Summer Session reserves the right to reject any application or cancel any registration without assignment of reason.

CALENDAR AND REGISTRATION

The first term of Summer Session will open June 19* and close July 30. The second term will open July 31 and close September 8. Students who desire a summer "quarter" of eleven weeks to complete one-third of a regular year's work—for example, one-third of the work required for a Master's degree—can complete such work in the period from June 19 to September 1. All Mondays except June 25, July 9, and August 20 are holidays. July 4 will be observed as Independence Day.

For the first term, June 19 is registration day. Any students who have not previously registered by mail should be present at 9:00 A.M. and 2:00 P.M. to submit their credentials for admission, select courses, and make arrangements concerning board and lodging. Students arriving after 5:00 P.M. Tuesday will register the next morning at 8:30. Regular classes will begin Wednesday morning at 8:00. Students will find schedule posted on the bulletin board prior to registration.

For the second term, Monday, July 30, 2:00 to 5:00 P.M. is registration day. By special schedule for that day certain classes will meet that afternoon.

All graduate students seeking credit to be applied toward an advanced degree at Duke University or elsewhere not only must file applications and transcripts with the Graduate School of Arts and Sciences but they are required to register in the Graduate School at the beginning of each term of their residence at Duke University. *This registration is in addition to the registration in the Summer Session Office.* When reporting for registration in the Graduate School, students should bring with them course cards endorsed by the Director of Graduate Studies in their major

* Because of the special schedule worked out by reason of the national emergency, certain undergraduate classes and a few graduate courses for teachers and principals will begin slightly earlier. See "Courses of Instruction," page 25, this announcement.

Students who register late are regarded as absent from all classes held prior to their registration. Late entrance seriously affects credits.

The School of Spanish Studies will begin June 18, and close July 28.

department. Anyone registering in the Graduate School after the close of the Summer Session registration period will be charged a late registration fee of five dollars.

FLEXIBILITY OF CALENDAR

It will be observed that the Summer Session of the University offers the students considerable flexibility as to the time of registration and the length of residence obtainable. For example, although most first-term classes will begin Wednesday, June 20, it is possible for students who register in advance to enter classes as late as Monday, June 25, since each student is allowed four permissible absences. A student, however, cannot obtain full credit for the term's work with more than four absences. Furthermore, since many graduate students find it exceedingly hard to complete twelve weeks work in one summer term, students are permitted to register for only eleven weeks and take advantage of early examinations closing September 1. This means that the student who can attend the first term of the Summer Session and continues for five weeks of the last term, completes a full "summer quarter," or exactly one third of the year now required for a Master's degree. Finally, students who wish to complete nine weeks of work instead of six or twelve may in some cases be able to do so by planning their work for the first term so as to find a related course offered the first three weeks of the second term, or by entering a course July 9 that is completed within the last three weeks of the first term and closely related to some course continuing through the second term. There are in 1945 few courses offered for three weeks that permit this arrangement, but it is possible in most departments to enter a research seminar for as much as three weeks additional work.

CERTAIN CLASSES BEGINNING BEFORE REGISTRATION DATE

Since the 1944-45 session of the University closes May 26, there is a demand on the part of the Duke undergraduate students for certain classes to be given to begin Tuesday, May 29. These are indicated in the listing of courses. Although offered for the convenience of Duke undergraduates, they are open for enrollment to students from other colleges whose calendar permits them to enter early. A few graduate courses in Religious Education are also offered to begin May 29.

AVAILABILITY OF ROOMS AT THE UNIVERSITY

Rooms rented from the University are not available until 9:00 A.M. the day of registration. Students arriving prior to that hour are expected to make temporary arrangements at the hotel or elsewhere. The Summer Session, however, will be glad to co-operate to help students find desirable accommodations. It is usually possible to find temporary rooms near the campus for about one dollar per person per night. Special problems of this type should be taken up with the Director promptly. Except in rare cases, rooms for the second term will not be available until 2:00 P.M. registration day on account of late examinations scheduled for first-term students, but the Summer Session can easily adjust conflicts of this type.

Room assignments are made with the understanding that the student is expected to vacate the room within twenty-four hours after his last examination. If his last examination begins at 8:00 A.M. Monday, he is expected to vacate the room by 8:00 A.M. Tuesday, etc. In cases where the enforcement of this rule works hardships, temporary arrangement can usually be made if the Housing Bureau is notified one week in advance.

EXAMINATIONS

The last two days of each term of six weeks are devoted to examinations. The University has no provision for giving examinations *in absentia*, but students absent from examination for valid reason are permitted a liberal extension of time in which to return to the University for completion of credit.

The early opening of schools in which many Summer Session students happen to teach, sometimes necessitates the return home of students before the end of the second term. The provision made for such students is as follows: Any student whose record is superior in a given course may with the consent of his instructor and the approval of the Director of the Summer Session obtain a special examination not earlier than the fifth day before the regularly scheduled examination. If he takes such examination, the total credit in each course is reduced by one sixth; in other words, the student is interpreted as having completed five weeks of work, and his maximum allowable credit, therefore, is five semester hours.

SCHEDULE OF EXAMINATIONS UNDER THE NEW PLAN FOR THE MASTER OF EDUCATION DEGREE

For the first term, Master of Education examinations will be held as follows:

Tuesday, June 19 (registration day), 8:00-11:00 A.M. and 2:00-5:00 P.M., Room 2D, West Duke Building, examinations upon the students' minors. (All students expecting to stand this examination should file application with Dr. D. E. Scates before May 25, in order that the department may be notified to prepare examinations.)

Wednesday, June 20, 8:00 A.M.-12:00 M., Room 2D, West Duke Building, examination upon the professional major. (Only students who have completed their profession major will be permitted to stand examination at this time, and the same comment applies to the examination given toward the end of the second term.)

Monday, July 30 (registration day for second term), 8:00-10:30 A.M., 11:00 A.M.-12:50 P.M., and 2:15-5:45 P.M., examinations on the required reading courses. (Only those who have completed their required reading courses by the end of the first term of the Summer Session will be eligible for this examination.)

Examination for the second term will be given the same hours and place as follows:

Tuesday, July 31, examinations upon the students' minors. Students intending to take these examinations should apply to Dr. Scates before July 15.

Wednesday, August 1, examination upon the professional major.

Wednesday, August 29, examination upon the required reading courses for those completing their reading the second term.

Except for the examinations on the minors, where longer advance notice is required, it will be sufficient to notify the Director or Dr. Scates ten days before the date of the examination. No fee is required at the time that the examination is taken, but at the time of graduation the student pays one flat examination fee of \$25, equivalent to the thesis fee required of other Master's candidates.

GRADUATE INSTRUCTION IN THE SUMMER SESSION

ADMISSION TO GRADUATE COURSES

A student who has received the A.B. or B.S. degree for a four-year undergraduate course may be admitted to take graduate courses in the Graduate School of Arts and Sciences of Duke University, provided his undergraduate record gives positive evidence of the ability to undertake graduate study successfully. An average grade of not less than "B" is ordinarily accepted as evidence of such ability.*

After his credentials have been accepted and he has received a permit to register, the graduate student must consult with the Director of Graduate Studies of the department in which he proposes to major before actually registering for courses. Usually this can be done on the day of registration in summer terms. The department concerned will determine whether a student is prepared to take any particular course. In all cases the student must make up without credit toward a graduate degree all prerequisites required by the major department of candidates for advanced degrees.

ADVANCED DEGREES

The degrees offered in the Graduate School of Arts and Sciences are Master of Arts (A.M.), Master of Education (M.Ed.), and Doctor of Philosophy (Ph.D.). Most of the departments of the University are now prepared to give a full program of work leading to the degree of Doctor of Philosophy.

ADMISSION TO THE GRADUATE SCHOOL

After twelve semester hours of graduate work, the student may apply for admission to the Graduate School, and thus become a candidate for the Master's degree. Such admission is dependent upon the fulfillment of two conditions. (1) The student must have made a mark of "G" or "Good" in at least three semester hours of work, with no mark less than "S."† Candidates who cannot meet this condition may at a later time submit their records for re-evaluation, provided that in their subsequent

* For other regulations concerning admission to graduate courses, transcripts, and registration, see pages 8-9, this bulletin.

† The system of grading used in the Graduate School is as follows: "E," or "Exceptional"; "G," or "Good"; "S," or "Satisfactory." "S" is interpreted in terms of "percentage" grading as being at least ten points above the conventional undergraduate "pass" of 70. "G" is normally interpreted as indicating that the student receiving it has standing within the upper 25 per cent of a department's students considered over a period of years.

work they shall have made a substantial number of "G's." (2) The student in his undergraduate work must have met substantially the requirements for the A.B. or B.S. degree at Duke University. Any deficiencies of undergraduate work must be satisfied before admission to the Graduate School.

DEGREE OF MASTER OF ARTS

Language Requirements:

Candidates for the degree of Master of Arts are required either to have a reading knowledge of a foreign language, evidenced by examination or by transcript showing the completion of the third college year of the language, or to have a reading knowledge of French and German, evidenced by examination or by transcript showing the completion of second-year college French and college German. This requirement must be satisfied before the student takes the examination on his thesis.

The Summer Session regularly offers courses in French and German for those students who wish to prepare to satisfy the requirement in either of these languages in this way.

Minimum Residence Requirements:

For graduate students who take more than fifteen semester hours for the Master's degree in the Summer Session the minimum residence requirement is thirty-three semester hours of graduate credit. Graduate students may not receive more than six semester hours of credit for work taken in one summer term of six weeks. The degree of Master of Arts or Master of Education thus can be earned in six such summer terms by students who are well prepared for graduate work, or by careful planning of thesis residence in a minimum of five and one-half terms. Most students planning to complete a Master's degree within a series of summer sessions should plan to spend six terms of six weeks each in residence.

All the work offered for the Master's degree, either in the regular academic year or in summer sessions, must be completed within a period of six years from the date of beginning. Graduate courses begun earlier than six years before the completion of the work for the degree will not count either toward residence or course credit requirements.

Major and Minor Subjects:

Before selecting his major in a department, a student must have completed a minimum of twelve semester hours of approved *preliminary* courses in that department and twelve additional semester hours either in the department or in related work. This minimum is imposed by the Graduate School Council. A majority of the departments of instruction require at least eighteen semester hours of undergraduate work, and a few require more. The student therefore should read carefully the special requirements listed by each department in the *Graduate* or the *Summer Session Bulletin*.

Each candidate for the Master's degree must select a major subject in which the minimum requirement is twelve semester hours and the thesis.

A candidate must take six semester hours of graduate work in a minor subject approved by the major department, and the remaining nine semester hours in the major or minor subjects or in a department approved by the major department and by the Graduate School Council. All graduate students must take a minimum of six semester hours of work in courses numbered 300 or above unless excused therefrom by the Dean of the Graduate School on the recommendation of the major department. No undergraduate course may be credited toward the degree of Master of Arts.

Thesis:

In the minimum residence requirement of thirty-three semester hours of graduate credit is included an allowance of six semester hours for a thesis. The title of the thesis required in partial fulfillment of the requirements for the degree of Master of Arts must be filed with the Dean of the Graduate School on or before November 15 of the academic year in which it is expected that the degree will be conferred. The subject must receive the written approval of the Director of Graduate Studies of the department in which the candidate has his major field of work and also of the professor under whom the thesis is being written.

Four bound typewritten copies of each thesis must be submitted to the Dean of the Graduate School in approved form on or before May 1 of the year in which the degree is conferred. The thesis is passed upon and accepted or rejected by an examining committee of three members of the Faculty. Each candidate is required to appear before the committee for an oral examination on the thesis and major field.

CREDIT TOWARD THE MASTER'S DEGREE FOR WORK DONE ELSEWHERE

Not more than six semester hours of credit towards the Master's degree may be given to graduates of Duke University or of other approved colleges or universities for acceptable graduate courses or research work completed elsewhere. Such credit shall not shorten the minimum period of full-time residence work required at Duke University. However, with the approval of the student's major department and the Dean of the Graduate School, the student with such credit may be permitted to take six semester hours of required undergraduate training, six semester hours of a required language, or to register for nine or twelve hours of thesis research instead of the usual six semester hours. No credit toward advanced degrees is given for university extension or correspondence courses.

SUGGESTED PROGRAM OF WORK TOWARD THE MASTER OF ARTS DEGREE*

A committee of the Graduate School Council has drafted the following recommendations respecting the student's program of work toward the Master's degree:

* A suggested program for the Master of Education degree would be much the same as this program, except that one of the "Reading Courses" should be taken not later than the fourth term and at least one each succeeding term.

First term: two courses in the major department, usually from numbers 200 to 299.

Second term: one course in the major department, and one course in the minor department, or two courses in the minor department.

Third term: one course in the major department or one course in the minor department, and a general course in research methods if such a course is offered by the major department. A thesis subject should be tentatively selected and filed in the Graduate School with the signed approval of a professor willing to supervise it and the Director of Graduate Studies of the major department before the beginning of the third week of the third term.

Fourth term: one course in the major department or remaining course in the minor department (if for any reason there is a remaining course in the minor). The remaining time of the fourth term should be spent in provisional work upon the thesis under at least preliminary supervision of the major professor. The filing of the title in the Graduate Office should be made permanent.

Fifth term: one course in the major department and half time devoted to the thesis under the active supervision of the major professor.

Sixth term: same as the fifth. Within five days of the beginning of his final term of study the summer student should file in the Graduate Office a notice of his intention to complete his Master's program in that term.

This plan will require eighteen semester hours of work in the major department and six in the minor department, as were required by the former rules, plus a course in research methods in the major department (or substitution elsewhere provided below) and will allow one half of the student's time for three summer terms to be devoted to his thesis work. By approval of the department and of the Dean of the Graduate School, the minor work may be enlarged at the expense of the work in the major department. If the major department does not offer a generalized course in research methods, some other courses numbered 300 or above either in the major or minor department may be substituted with the approval of the Dean of the Graduate School.

DEGREE OF MASTER OF EDUCATION

The degree of Master of Education is granted to teachers, or others engaged in educational service, upon completion of the prescribed program of study. Candidates for the degree must have had two years of practical experience in teaching when the degree is conferred. This experience may be obtained in the two years immediately prior to entering upon candidacy for the degree, or it may be obtained concurrently with the period of study for the degree.

A preliminary requirement for admission to candidacy for this degree is the completion of a minimum of eighteen semester hours of approved

undergraduate work in education, including work in educational psychology and in history of education, educational sociology, or school administration. Three hours of general psychology may be counted as contributing toward these prerequisites.

Candidates for the Master of Education degree must take a minimum of thirty-three semester hours of graduate work in residence at Duke University. This work is classified as follows:

(1) Twelve semester hours of generalized work in education, consisting of four courses intended to help the student learn to read independently and obtain a basic understanding of education and the school.

(2) Six to twelve hours of minor work.

(3) Nine to fifteen hours of an intradepartmental or "professional" major.

The twelve hours of generalized work are conducted on a plane analogous to Honors reading* and described as follows:

Education S300.—The place of educational research, its methods of procedure, evaluation of results, special problems, etc.

Education S304.—The school as an institution—the place of the school in society, its history, and philosophy.

Education S305.—The nature, function, and organization of the curriculum.

Education S317.—The psychological principles of education—an advanced study of teaching, learning, and the learner.

An examination upon the generalized reading is given at the end of the thirty-three weeks.

For the six to twelve semester hours of minor work, the following suggestions are offered:

(a) For those candidates, whose intradepartmental, or "professional," major is public school administration, six hours in political science, economics, sociology, or other work especially listed as "related courses in other departments for majors in public school administration."

(b) For those whose professional major is public school supervision, six to nine semester hours in psychology, educational psychology, or a combination of the two, or sociology, or in specifically designated "related courses" for supervisors.

(c) For those whose professional major is secondary education, six to twelve hours in their teaching field(s), with twelve hours strongly recommended.

(d) For those whose professional major is elementary education, six semester hours in psychology, educational psychology, or an approved combination of the two, or in child welfare and development (wholly in sociology, or partly sociology and psychology or educational psychology, if a satisfactory combination can be worked out).

The nine to fifteen semester hours of professional major may be in one of the following fields: (a) public school administration, (b) public school supervision, (c) secondary education, (d) elementary education. It will be observed that the degree is intended for those who definitely

* Voluntary class attendance is permitted students enrolling in these courses for reading credit, except that such students are expected to report at least once in three days for discussion.

desire their work for professional purposes. The Master of Education degree, therefore, is not offered with a major in educational psychology or history of education. Students in these two fields would be expected to enroll for the Master of Arts degree, whereas students with majors in the other fields mentioned have choice between meeting Master of Education requirements and Master of Arts requirements.

At any time after the completion of his minor and his professional major, the student may take the general examinations on these two phases of his program on the days designated for them. Upon the fulfillment of all residence requirements, he will be given a comprehensive written examination upon the twelve hours of generalized readings. Any of these examinations may be rejected upon the grounds of poor usage of English.

A student for the Master of Education degree is permitted to substitute a thesis for six hours of course credit in education, provided (1) that in the first twelve hours of his work he earns a "G" record on at least six hours, and (2) that he presents a thesis subject which has been approved by the member of the staff in education who will supervise the thesis and by two other members of the staff. (Two of the three Faculty members approving the subject must be resident members of the staff in education.) For the remainder of his work the student must present at least two of the four basic courses 300, 304, 305 and 317, the same minor as other M.Ed. students, and enough additional work in education to give him a total of twenty-seven hours plus his thesis.

As in the case of the requirements for the Master of Arts degree, all work presented for the degree must be completed by the candidate within a period of six years from the date of beginning. Graduate credits from other approved institutions may be accepted toward course requirements up to a maximum of six semester hours. The acceptance of such credit will not reduce the amount of required resident study at Duke University for which the student must register. With the approval of the student's major department and the Dean of the Graduate School, the student with such credit may be permitted, however, to take six semester hours of required undergraduate training, or to register for nine or twelve hours of thesis research instead of the usual six semester hours.

DEGREE OF DOCTOR OF PHILOSOPHY

A student who plans to enter upon a program of work leading to the degree of Doctor of Philosophy should consult, or enter into correspondence with, the Dean of the Graduate School and the head of the department concerned. He will then be advised as to the possibility of securing necessary instruction and supervision of research in the desired field. Credit for as much as one year of graduate work done in summer sessions may be given with the approval of the Graduate School and the department in which the student takes his major work. The student should consult the bulletin of the Graduate School for a full statement of requirements for the degree of Doctor of Philosophy.

THESIS WRITING IN SUMMER SESSION

Since Duke University grants no Master of Arts degree except upon completion of a satisfactory thesis, every candidate for that degree who expects to complete his work in the Summer Session should as soon as possible after completing his first term of residence choose a field in which he desires to write a thesis and confer with some instructor offering graduate courses in that field. The following points should be kept clearly in mind when arrangements are made for thesis supervision:

1. The thesis subject, which must be approved by the instructor who undertakes supervision and by the Director of Graduate Studies of the student's major department, is filed in the Graduate School Office on the blank regularly provided for that purpose. If the instructor believes that a topic proposed by a student is unsuitable, or that the student is not prepared to develop it, or that the instructor is not prepared to supervise it, his decision is final.

2. A student may enroll for six semester hours of residence credit towards a thesis or for less, in one term of six weeks. If he enrolls for only three semester hours he may enroll also for a course of three semester hours, but he cannot enroll for a total of more than six semester hours of credit, including residence toward his thesis. Completion of six semester hours of residence toward his thesis does not guarantee the satisfactory completion of the thesis, which must be acceptable to the instructor supervising it and to a committee representing the Council on Graduate Instruction. Students who do not complete their theses the first term they register for supervision have the privilege of registering a second term upon payment of regular dues, but are not required to do so. Since the numbers permitted to enroll in thesis seminars are strictly limited, such students are not permitted to register for a third term of supervision.

3. A student may either enroll in a specifically designated "thesis" course or, if his preparation meets the approval of the instructor in charge, attach himself to some regularly offered course in his field of study and report periodically to the instructor offering the course.

A student enrolling for thesis residence credit in regular course pays the same fees as other students during the summer of residence. At the time of graduation he pays the same diploma and commencement fees as other students and a thesis supervision fee of \$25.*

5. Students enrolling for thesis supervision during the Summer Session are expected to complete their theses largely during the summer of enrollment or some subsequent summer term. The instructor with whom they enroll is not under obligation to give active supervision during the academic year, although instructors are willing to give a reasonable amount of attention to theses practically completed. Similarly, instructors in Duke University who are not teaching in the Summer Session are not expected to undertake the supervision of theses written by summer school students.

6. Students enrolled for thesis supervision in the first summer term who expect to receive their thesis examination during that term should submit the bound copies of their theses to the Graduate School Office at least ten days before the end of the term. They may then be distributed by the examining committee. Failure to complete the thesis by that time will generally require deferment of the examination until the following term. Those who work on their theses during the second summer term must complete their theses and submit the bound copies to the Graduate Office at least ten days before the conclusion of the term if they wish to receive their diplomas in September. Students who fail to complete their theses by the conclusion of the second term must plan to take the final examination either in the following summer

* Students completing the M.Ed. degree by examination pay an examination fee of \$25, in lieu of the thesis supervision fee.

or in the following academic year. It is the policy of the University not to give examinations to candidates for the advanced degrees during the time between the Summer Session and the academic year.

7. Students of the academic year who do not complete theses begun prior to the Summer Session are not accepted for Summer Session enrollment unless their subjects are in the field of some thesis seminar or other course offered by an instructor who recommends that such students be assigned to his supervision during the summer. Instructors who are employed for full time by the Summer Session are specifically requested not to carry over into the summer thesis students whose subjects are not properly a part of work such instructors are offering in the Summer Session.

ROOM AND BOARD

Board and room for a term of six weeks may be secured in the men's dormitories at the rate of \$62.50 for a single room, \$57.50 for each occupant, with two in a room, or \$70.00 if double room alone is engaged. On account of extra service the rate in the women's dormitories is one dollar a term higher; that is, \$63.50 for a single room, \$58.50 for each occupant, with two in a room, and \$71.00 for a double room alone. Many of the rooms on the East Campus are single rooms; on the other hand, on the West Campus there are very few single rooms, most of these being on the third floor. On both campuses there are certain "premium" rooms for which the rate for six weeks is \$1.50 higher per occupant with roommate and \$2.50 higher for single occupants in the rooms. A list of these "premium" rooms will be furnished upon request, such rooms being corner rooms or rooms with unusual ventilation or size. During the summer of 1945 all women, graduate and undergraduate, will be housed on the East Campus. There will be room on the West Campus for both graduate and undergraduate men. Occupants of University rooms furnish their own bed linen, blanket, pillows, and towels. All other essentials are supplied by the University.

For the summer of 1945 there is no dormitory available for married students whose wives accompany them. Students, therefore, who desire to bring their families should write the Director for a list of private rooming places where outside accommodations may be obtained.

The rules and regulations in all dormitories are substantially the same as those in the regular academic year. Students are strongly advised against installing in their rooms radios, and other appliances likely to annoy other occupants.

Residents of University dormitories are advised to board in the regular dining room of the Union, where at mealtime there is the opportunity to meet with fellow students, and where, because board is furnished at cost, the greater number of students guarantees better board for all. The Woman's College requires that undergraduate women students board at the Union. The service is cafeteria plate-service. Men who live in the dormitories but desire to board elsewhere than in the regular dining room will pay room-rent at the rate of \$17.50 for single room, \$12.50 for each occupant, with two in a room, or \$25.00 for a double room, alone; and women at the respective rates of \$18.50, \$13.50, and \$26.00.

Certain rooms are \$1.50 per term higher per occupant with roommate and \$2.50 higher for single occupant in these rooms than in other rooms. Students who room off the campus but desire board in the Union may obtain it for \$45.00 for the six weeks.

FEES

Teachers in active full-time service in schools and colleges are exempt from tuition fees for as many as four terms of six weeks in a period of six years. After their fourth term they pay regular tuition charges. All other students are charged a tuition fee of \$8.00 for each college credit hour, or \$4.00 for each semester hour, maximum tuition being \$24.00 for six weeks, or \$30.00 for courses running seven weeks. All students, teachers included, pay a registration fee of \$20.00 per term. Students in the sciences pay the laboratory fees required in regular term, and students completing degrees pay the regular commencement charges at the time of receiving their degrees, besides the thesis supervision of M.Ed. examination fee of \$25.00 required of persons completing Master's degrees.

Major expenses are estimated as follows for each term:

Registration	\$20.00
Room-rent and board	58.50
<hr/>	
Total major expenses to teachers	78.50
Tuition required of other students	24.00
Special fee for "School of Spanish Studies" ...	5.00

In the men's dormitories, as has been stated, the charge for rooms is one dollar less, making the total major expenses for occupants \$77.50. To these totals should be added about \$7.00 for books, probably \$3.00 for miscellaneous expenditures, and laboratory fees for any science course the student may elect. (For laboratory fees, see description of courses in this announcement.)

RESERVATION IN ADVANCE

Classes are of limited enrollment. All applications for registration in classes, as well as applications for rooms, are filed in the order in which they are received. Because it is uncertain that late applicants will find room on the campus, *students are urged to reserve rooms in advance*. They may reserve rooms by paying at the time the reservation is made, the regular charge for the room reserved, usually \$17.50 (or \$18.50) for a single room, \$12.50 (or \$13.50) for a room with roommate, \$25.00 (or \$26.00) for a double room alone, or these prices with the additional charge for premium rooms. Specific room reservation for the first term may be made at any time. Since the total registration for the first term affects the decision as to which buildings are to be used the second term, specific reservation for the second term should not be requested before July 20. No room may be reserved by more than two students, but adjoining rooms may be reserved by groups who desire to be together. Students

who enroll for the first term have priority in reserving their first-term rooms for the last term. The University reserves the right in the interest of the Summer Session and the other students to cancel any reservation of courses or room without assignment of reason. Any student making deposit for reservation or room-rent is entitled to withdraw with full refund at any time within five days prior to registration without assignment of reason.

"SCHOOL OF SPANISH STUDIES"

Because of the increased interest in Spanish studies throughout the nation and the great expansion of Spanish and Spanish enrollments in the colleges and high schools of this region, the Summer Session will again offer an unusual grouping of courses in Spanish the first term of the Summer Session, extending from elementary work through second- and third-year Spanish to graduate work and advanced seminars. It is planned to supplement the courses with liberal opportunity for speaking the language, hearing lectures in Spanish, and conducting discussions and evening programs in the language. It is planned also to have Spanish-speaking tables in the University Union and a Spanish house in one of the East Campus dormitories. Both Castilian and Spanish-American culture and literature will be emphasized. (For details of the "School of Spanish Studies," see courses listed under "Spanish" in this announcement, or address the Director of the Summer Session for special folder.) Because of special facilities provided in "Spanish Studies," there is a special fee of five dollars charged, but all other expenses are the same as in other parts of the Summer Session.

The "school" is intended to offer to students and teachers and opportunity for intensive training in the Spanish language and basic orientation in the literature and cultural background of the Hispanic world. Under the plan of organization, the "school" will offer special features of a segregated institute wherein use of the language in and out of the classroom and the presence of native teachers is designed to create the atmosphere of foreign study. The work is intended for the following groups of persons:

1. High-school and college teachers who need review or further training and orientation for their professional equipment;
2. Undergraduates who intend to major in Spanish;
3. Prospective teachers of Spanish and specialists in other fields (business, military or government service, history, etc.) whose work may require a knowledge of Spanish;
4. Graduate students in Spanish;
5. College teachers who wish to pursue advanced studies in Hispanic literature or cultural history.

SUMMER SESSION OPPORTUNITIES FOR GRADUATE STUDENTS

A majority of the students in the Summer Session are graduates of standard colleges, most of them supervisory officials and teachers in the public schools. Departments of instruction, therefore, offering courses related to the common secondary-school curriculum have built up regular sequences of graduate work continuing through a series of summer terms in which graduate students may enroll with reasonable assurance that sufficient work will be offered to enable a properly qualified student to complete Master's requirements easily within the period permitted by the University. Departments in which sufficient demand for graduate courses has developed to enable students to complete Master's degrees are Botany, Economics, Education, English, History, Mathematics, Political Science, Religion, Sociology, Spanish, and Zoology. It is intended to add complete sequences in other departments as rapidly as demand justifies. The Divinity School offers work toward the B.D. and other advanced degrees. In the Department of Education complete sequences of work for the Master's degree are offered in the divisions of public school administration, public school supervision, secondary education, educational psychology, and elementary school education. This variety of offerings should cause students in this department to be especially careful to select a unified course.

In all departments a graduate student must select his minor with the approval of his major department. Under "Courses of Instruction," pages 25-39, this bulletin, specific regulations and suggestions of departments are given. It is important for all degree candidates to choose their courses according to some unified plan. Mere accumulation of more or less unrelated credits in various divisions of a department with a minor in some department only remotely related to the student's major work will not be accepted as meeting requirements for a graduate degree. Students are advised to choose their first term's work along the line of their major interest and then each succeeding term exercise increasing care in advising with their major professor and the Dean of the Graduate School as to properly related work.

APPOINTMENTS BUREAU

A Teachers' Appointments Bureau is maintained in Room 113, Administration Building, West Campus, for the benefit of teachers desiring a change of position. There is no charge for this service.

RELIGIOUS SERVICES

University religious services are held each Sunday morning at eleven o'clock, to which all students are invited. In the summer of 1944 the student choir, a voluntary organization, enrolled more than two hundred students.

RECREATION AND ENTERTAINMENT

At the time of registration every student receives an identifying ticket entitling him to admission to all recreational facilities available under wartime conditions. There are also an evening play hour sponsored by the Department of Physical Education and a Sunday evening "sing" that has grown to be a tradition among the quadrangle students.

Mr. Anton Brees, Carillonneur of the Mountain Lake Singing Tower, Lake Wales, Florida, will give recitals on the fifty-bell carillon of the University at stated times twice a week during the Summer Session.

The national honor society in education, Kappa Delta Pi, maintains a weekly forum to which all students are invited.

The first Thursday evening of each term is set aside for the opening general assemblies of students and Faculty.

**INSTITUTE FOR TEACHERS OF SECONDARY MATHEMATICS
JULY 2-12**

The Institute for Teachers of Secondary Mathematics will hold its annual summer session from July 2-12. There will be morning, afternoon, and evening meetings each day during the Institute. The Summer Session is providing special lectures to emphasize the better teaching of mathematics and phases of application especially interesting to students at the present time. Registration will be \$3.00. Those who desire can get room and board in the University at the rate of \$2.00 per day with two in a room, and \$2.50 per day for a single room. A complete program will be sent upon request after April 20. For further information, write the Director of the Summer Session or Professor W. W. Rankin, Director of the Mathematics Institute, Duke University.

**INSTITUTE FOR TEACHERS OF ARITHMETIC
JULY 30-AUGUST 4**

An institute for the teachers of arithmetic is planned for the week of July 30, following the main term of the Summer Session. For further information, write the Director of the Summer Session or Professor William A. Brownell.

**SPECIAL NOTE TO UNDERGRADUATE STUDENTS TRYING TO
ACCELERATE GRADUATION**

It is the policy of the University to assist in any reasonable way students trying to accelerate their university work because of the national emergency. The Summer Session of 1945 is trying to make special provision for the following groups of students:

1. Those who lack fifteen hours or less of graduation (Provision has been made to permit a maximum of fifteen semester hours to be completed between May 29 and September 8. See concluding paragraph of this note.);
2. Those who need six or twelve semester hours in order to be able to graduate in one more semester;
3. Those who last summer planned to take at least twelve semester hours this coming summer in order to complete graduation in the fall semester.

Special attention is called to the courses that are tentatively offered to enable students to obtain three semester hours before the beginning of the regular Summer Session classes (first term) June 19.

COURSES OF INSTRUCTION

EXPLANATIONS AND ABBREVIATIONS

Classes meet daily five times per week for six weeks unless otherwise indicated. Classes that meet for sixty-minute periods are indicated as carrying two semester hours of credit. Classes meeting eighty-five-minute periods daily count for three semester hours except where credits are stated otherwise. Courses are arranged alphabetically by departments. The course numbers are same numbers used in describing courses in the regular term, with the letter "S" preceding; for example English S1 would correspond to English 1 of the regular term.

Certain abbreviations occur; for example, *A* means that the course comes the first eighty-five minutes daily, beginning at 8:00; *B* means that the course comes at the eighty-five-minute period beginning at 9:40; *C* means that the course comes at the eighty-five-minute period beginning at 11:20; *D* means that the course comes at the eighty-five-minute period beginning at 2:15. Unless stated to the contrary all classes are scheduled for the East Campus. For complete schedule of rooms and courses, students should consult official bulletin boards at time of registration.

N.B.—Different State Departments of Education grant professional credit for various courses in accordance with their own carefully defined rules. Every student should inquire carefully at or before registration as to what professional credit is allowed for each course in his state.

MINIMUM ENROLLMENT REQUIRED FOR COURSES

Many courses are offered in spite of small enrollment. The University, however, reserves the right to withdraw undergraduate courses and graduate courses numbered 200-299 in which fewer than ten students enroll, and graduate seminars numbered 300 or above in which fewer than six students enroll. If courses are withdrawn, the University attempts to avoid undue hardship for students enrolled toward degrees that they could possibly complete the current summer.

COURSES REQUESTED THAT ARE NOT OFFERED

On the other hand, if unexpected demand arises, some courses not announced will be given, provided sufficient demand is expressed at least thirty days prior to the opening of the Summer Session and provided the University has available on its undergraduate or graduate staff an instructor who has been offering the course desired. A minimum of fifteen students is usually interpreted as sufficient demand, except in cases where the proposed enrollment is too heavily withdrawn from courses already offered.

BOTANY

PROFESSOR HUGO L. BLOMQUIST, CHAIRMAN—203 BIOLOGY BUILDING; PROFESSOR
FREDERICK A. WOLFE, DIRECTOR OF GRADUATE STUDIES—315 BIOLOGY BUILDING*

For admission to candidacy for the Master's degree in Botany, students must have completed a minimum of eighteen semester hours of biological science, including six semester hours of botany in courses numbered above one hundred. Students, who have not yet had the minimum eighteen hours, however, may enter higher courses by permission of the instructor, if he is convinced that they can carry the work for undergraduate credit, and may count such work toward the eighteen hours necessary for candidacy.

S225. Special Problems.—Ecology, Taxonomy.—May 29-July 30. *Credit to be arranged.* STAFF

S235. Introduction to Field Botany.—A survey of the ferns and seed plants of the Piedmont; practice in identification; regular field trips to learn the common as well as rarer species in their native habitats. Prerequisite: one year of botany or equivalent. *Lectures and field trip or laboratory daily.* A, B, 2-5 p.m., July 10-July 30. 3 s.h. (w) MR. OOSTING

S359. Research in Botany.—Individual investigation in the various fields of botany. Credit to be arranged. May 29-July 30. STAFF

ECONOMICS

PROFESSOR CALVIN B. HOOVER, CHAIRMAN—103 ADMINISTRATION BUILDING;
PROFESSOR JOSEPH J. SPENGLER, DIRECTOR OF GRADUATE
STUDIES—105 DIVINITY SCHOOL

For admission to candidacy for the Master of Arts degree in Economics, the student must meet the general requirements for admission to the Graduate School and must have had twelve semester hours in Economics, including Principles of Economics. Twelve additional semester hours must be offered in Political Science, Sociology, or History.

Every candidate for a Master's degree must elect six semester hours of graduate work in Economic Theory. The other twelve hours in Economics should be elected as follows: six hours in the field in which he writes his Master's thesis and three hours in each of the two other fields. For purposes of concentration, the fields in addition to Economic Theory shall be Finance, Economic History, History of Economic Thought, and Social Economics. The minor of six semester hours must be taken in Political Science, Sociology, or History, or in some other department approved by the major department.

S51. Principles of Economics.—A short course in the essential principles of economic science. (This course will not count as a part of the minimum economics requirements for graduation until the equivalent of S52 has been completed. It will, however, count as elective credit.) A, C, May 29-June 18. 3 s.h. MR. DILLINGHAM

S52. Principles of Economics.—A continuation* of Economics S51, with emphasis on economic problems. (This course will not count as part of the minimum economic requirements for graduation until the equivalent of S51 has been completed. It will, however, count as elective credit.) A, C, June 19-July 9. 3 s.h. MR. DILLINGHAM

* For the convenience of students working toward graduate degrees the names of the chairmen of departments and directors of graduate courses are given for departments now offering a full sequence of courses leading to Master's degrees.

S120. Economic Geography of the Pacific.—The physical influences, natural resources, and economic activities of Asia, Oceania, and portions of the western coasts of North and South America with special emphasis upon their relationship to present developments. *A, C, July 10-30. 3 s.h.*

MR. LEMERT

S152. Global Geography.—The subject matter involves resource patterns and world affairs, geonomic and geo-cultural problems, and geographic factors affecting geopolitical questions. *A, C, July 31-August 20. 3 s.h.*

MR. LEMERT

S233. State and Local Finance.—A study of expenditures, taxation, and financial administration in state and local governments with emphasis on current problems. Special attention will be given to research methods and materials and to the financial relations between state and local governments. Prerequisite: Public Finance, or consent of instructor. *B, June 19-July 30. 3 s.h.*

MR. RATCHFORD

S236. Public Finance.—This course deals with public expenditures, public revenue, public debts, and financial administration. *D, June 19-July 30. 3 s.h.*

MR. RATCHFORD

EDUCATION

PROFESSOR HOLLAND HOLTON, CHAIRMAN—2A WEST DUKE BUILDING; PROFESSOR WILLIAM A. BROWNELL, DIRECTOR OF GRADUATE STUDIES—1C WEST DUKE BUILDING

For admission to candidacy for the Master of Arts (A.M.) degree with major in Education, or for the Master of Education (M.Ed.) degree, students must, in addition to meeting the general requirements for admission to the Graduate School, meet the following specific requirements: 1. Eighteen semester hours of acceptable prior work in Education; 2. Twelve semester hours acceptable prior work in a minor field (Exceptions: if Psychology, Sociology, Economics, or Political Science is offered for the minor, six semester hours of work completed after entering the junior year in college will be accepted).

Graduate courses in the Department are grouped under the following subdivisions: Public School Administration, Public School Supervision, Secondary Education, Elementary School Education, and Educational Psychology. Every candidate for the Master of Arts degree in the Department should elect at least twelve semester hours in one of these fields in which he intends to write his thesis and the remainder of his work, including the six semester hours in his minor, with the approval of the proper division adviser. Dr. Proctor is adviser to students in School Administration; Dr. Proctor, Dr. Carr, and Dr. Scates advise majors in Supervision; Dr. Carr is adviser in Elementary Education; Professor Childs advises in Secondary Education; and Dr. Brownell and Dr. Scates advise in Educational Psychology. Candidates for the M.Ed. degree under the new requirements should read with special care the regulations of the Graduate School as set forth on pages 12-19, this bulletin.

PUBLIC SCHOOL ADMINISTRATION (GRADUATE COURSES)

(Master's candidates in this division elect their minor work in Political Science, Economics, or Sociology. Candidates for the Master of Education under the new plan must take fifteen semester hours of work from the courses specifically listed under this division.)

S234. Secondary School Organization and Administration.—A study of the outstanding problems of secondary school organization and administration other than problems of gradation and classification of pupils. (For these two problems, see course S273 listed under Supervision.) *C, June 19-July 30. 3 s.h.*

MR. HIGHSMITH

S323. Public School Finance.—A study of educational costs, sources of revenue for the support of public education, collection of revenue, basis of distribution, and accounting for funds spent. *A, June 19-July 30. 3 s.h.*

MR. GOLDTHORPE

S343. State and County School Administration.—A study of the state and county organization of public schools, emphasizing underlying principles. *B, June 19-July 30. 3 s.h.*

MR. GOLDTHORPE

Other courses accepted, not to exceed a total of nine semester hours, as work in School Administration are the following, when the student has the approval of his major professor: S209, S232, S233 or S233A, S273, S287, S288, S293, S305, listed under the division of Supervision; S208, S258, listed under Educational Psychology; S264 and S304, listed under History of Education; S205, S206, S216, listed under Secondary Education; and S207, S212, S222, listed under Elementary Education. It will be noticed that not all of these courses are offered this summer, but the complete list is published for the benefit of students who have already completed those not offered in 1945.

PUBLIC SCHOOL SUPERVISION (GRADUATE COURSES)

(Master's candidates in this division elect their minor work in Psychology or an approved combination with Educational Psychology, or in Sociology. Master of Education candidates are permitted as many as nine semester hours of work in their minor, but take the remaining twelve or fifteen, if minor is only six hours, from courses specifically described or listed under Supervision.)

S209. Statistical Methods in Education.—A course intended to familiarize teacher, supervisor, and administrator with the statistical method of treating educational and social data, so as to enable them to interpret and use the results of recent investigation in the science of education. Presented primarily from the point of view of the classroom teacher. *D, June 19-July 30. 3 s.h.*

MR. SCATES

S222. The Curriculum and Materials of the Elementary Grades.—A study of curriculum problems in the elementary schools. *C, June 19-July 30. 3 s.h.*

MR. HILLMAN

S232. Elementary School Supervision.—A survey of supervision as a means of improving instruction and adapting the curriculum to child and community needs. *D, June 19-July 30. 3 s.h.*

MR. CARR

S273. Problems of High-School Supervision.—A consideration of such problems as aims and purposes of high-school supervision, elements of an effective supervisory program of supervision for city and rural schools, the administration of supervision. *B, June 19-July 30. 3 s.h.*

MR. HIGHSMITH

S287. Problems of Mentally and Educationally Retarded Children.—The causes, types, and degrees of mental retardation; psychological theories of mental deficiency; the education of slow learners in regular and special classes; the organization, objectives, curriculum, and teacher of the special class; the social and eugenical bearings of mental deficiency. The educational problems receive major consideration. *A, B, July 10-30. 3 s.h.*

MR. WALLIN

S288. Problems of Mental Hygiene and Education.—The problems, objectives, scope, factors, and techniques of mental hygiene, particularly with reference to its educational and social implications; the prevention of hampering personality difficulties and developments of wholesome personality; types of adjustment difficulties in different types of children, especially in the normal, and their preventive and remedial treatment; the mental hygiene of the teaching and learning. *A, B, July 31-August 20. 3 s.h.*

MR. WALLIN

S304. The School as an Institution.—The place of the school in society, its history and philosophy. This is one of the reading courses required for the Master of Education. Selected problems guiding the reading of students will be discussed in class, and reading students are expected to attend the class from time to time. Other students may take the course for three semester hours credit, as any other graduate course listed. *B, June 19-July 30; A, C, July 31-August 20.* 3 s.h.
MR. GOLDTHORPE

S305. The Nature, Function, and Reorganization of the Curriculum.—This is one of the reading courses required for the Master of Education degree. Selected problems guiding the reading of students will be discussed in class, and reading students are expected to attend the class as suggested by the instructor. Other students may take the course for three semester hours credit, as any other graduate course listed. *A, June 19-July 31.* 3 s.h.
MR. CARR

Other courses accepted, not to exceed a total of six semester hours, as work in School Supervision are the following, when the student has the approval of his major professor: S234, S343, S363, listed under the division of Administration; S300, S208, S218, S258, S317, listed under Educational Psychology; S214, S264, S304, listed under History of Education; S205, S206, S216, S226, S236, S246, S266, S276, listed under Secondary Education; and S207, S212, S213, S237, S247, S257, listed under Elementary Education.

EDUCATIONAL PSYCHOLOGY (GRADUATE COURSES)

(The Master of Education degree is not offered in this division. Master of Arts candidates should choose Psychology for their minor subject. It will be observed that certain of the courses listed under Educational Psychology are also listed under Supervision, Secondary Education, or Elementary Education.)

S209. Statistical Methods in Education.—*D, June 19-July 30.* 3 s.h.

MR. SCATES

S237. Investigations in Reading.—A summary of the more important scientific studies in reading; interpretation of the results in terms of aims, methods, materials of instruction, testing, diagnosis, and supervision; emphasis on problems requiring further investigation. *B, June 19-July 30.* 3 s.h.
MISS VAN ALSTYNE

S238. Remedial Reading: Problems and Techniques in Grades III to VI.—This course will give practice in applying remedial reading techniques to actual cases of poor readers in Grades III to VI. The work will include testing, diagnosis, and daily tutoring (Monday through Friday) of one or more cases for the six-weeks period. A survey and evaluation of remedial reading techniques will be given. During the first week the class will meet daily, but later the work of the class will be accomplished largely through supervision and conferences. The class presupposes previous intensive study of the psychology of reading, and will be limited to ten students. *Materials fee, \$2.00,* in addition to textbook. Enrollment with the consent of the instructor. *D, June 19-July 30.* 3 s.h.
MISS VAN ALSTYNE

S239. Investigations in Tests and Measurements.—A general and critical review of investigations made in the field of educational and mental tests. The purpose is to deal with those phases of testing which have been objectively studied. The selection and use of tests considered from technical points of view will be studied, with emphasis upon problems needing further investigation. Extensive reading will be necessary. Prerequisite: course 258 or its equivalent. *C, July 31-September 8.* 3 s.h.
MR. SCATES

S247. Investigations in Arithmetic.—An analytical survey of investigations in arithmetic, with three purposes in view: (1) to examine the techniques employed with respect to their adequacy as means of solving the problems attacked; (2) to test the validity of the results announced and the values of these results for the teaching of arithmetic; (3) to locate further problems in arithmetic in need of scientific research. *C, June 19-July 30. 3 s.h.*

MR. BROWNELL

S258. Educational Measurements.—A study of the purposes and uses of standardized and informal tests and scales with special emphasis on their use in the improvement of instruction. *C, June 19-July 30. 3 s.h.*

MR. SCATES

S300. Introduction to Educational Research.—Primarily a pre-thesis writing course designed to be liberalizing as well as technical. The general purpose is to give the student an overview of research, acquaint him with the nature of research processes, and develop within him an appreciation of the essential characteristics of good research work. *D, July 31-September 8. 3 s.h.*

MR. SCATES

S317. The Psychological Principles of Education.—An advanced study of teaching, learning, and the learner. This is one of the reading courses required for the Master of Education degree of students beginning work after June 1, 1938. Selected problems guiding the reading of students will be discussed in class. *D, June 19-July 30. 3 s.h.*

MR. BROWNELL

SECONDARY EDUCATION (GRADUATE COURSES)

(Master's candidates in this division should elect minor work in their teaching subject, or in Psychology or Sociology. Master of Education candidates are required to elect their minor work in their teaching subject, and all of their work in Education must come from courses listed in this division. Teachers of Religion in public schools should register in this division unless they prefer to use Religion as their major subject.)

S205. Curriculum Problems in Secondary Education.—A consideration of practical problems of curriculum-making in the high school, in the light of the objectives of secondary education. Special consideration in the summer of 1945 to the problems of adjusting the curriculum in guiding returning veterans. *A, June 19-July 30. 3 s.h.*

MR. CHILDS

S206. Sociological Foundations of Secondary Education.—A consideration of the fundamental institutions of society and the problem of preparing youth to participate in them. The aims and objectives of the secondary education are considered in the light of the school as the strategic agent for guidance. Special attention will be given in the summer of 1945 to the problems of returning veterans in high school and on the junior college level. This course is closely related both to S205 and S215. *B, June 19-July 30. 3 s.h.*

MR. CHILDS

S215. Educational and Vocational Guidance.—A survey of the literature on guidance with special reference to secondary education; a critical study of the principles and techniques used in guidance; an attempt to locate the problems most urgently in need of solution. Prerequisite: twelve semester hours in the Department, including course 105 or course 206. *C, June 19-July 30. 3 s.h.*

MR. GWYNN

S234. Secondary School Organization and Administration.—*C, June 19-July 30. 3 s.h.*

MR. HIGHSMITH

S273. Problems of High-School Supervision.—*B, June 19-July 30. 3 s.h.*

MR. HIGHSMITH

S296. Problems of Teaching Religion in the Secondary Schools.—A consideration of such problems as the needs for week-day religious education and the difficulties of offering it in public schools, various plans of week-day religious education, the organization of curriculum and community relationships, problems of personnel, evaluation of courses and results. *A, June 19-July 30.* 3 s.h. MR. GWYNN

Other courses accepted, not to exceed a total of six semester hours, as work in Secondary Education are the following, when the student has the approval of his major professor: S233 or S233A, S287, S289, S209, S224, listed under the division of Supervision; S208, S217, S218, S219, S258, listed under Educational Psychology; and S264 under History of Education.

ELEMENTARY EDUCATION (GRADUATE COURSES)

(Master's candidates in this division should take their minor work of six semester hours in Psychology, Educational Psychology, or an approved combination of the two, or in Child Welfare and Development—wholly in Sociology, or partly Sociology and Psychology, or Educational Psychology, if a satisfactory combination can be worked out. Master of Education candidates in this division must take fifteen semester hours of work described or listed under Elementary Education.)

S222. The Curriculum and Materials of the Elementary Grades.—*C, June 19-July 30.* 3 s.h. MR. HILLMAN

S232. Elementary School Supervision.—*D, June 19-July 30.* 3 s.h. MR. CARR

S237. Investigations in Reading.—*B, June 19-July 30.* 3 s.h. MISS VAN ALSTYNE

S238. Remedial Reading: Problems and Techniques in Grades III to VI.—*D, June 19-July 30.* 3 s.h. MISS VAN ALSTYNE

S247. Investigations in Arithmetic.—*C, June 19-July 30.* 3 s.h. MR. BROWNELL

S268. Investigations in Geography.—A study of surveys and investigations in geography, with reference to: (1) nature and scope of the subject; (2) its place in realizing the aims and objectives of elementary education; (3) methods of teaching. *B, June 19-July 30.* 3 s.h. MR. HILLMAN

S287. Problems of Mentally and Educationally Retarded Children.—*A, B, July 10-30.* 3 s.h. MR. WALLIN

S288. Problems of Mental Hygiene and Education.—*A, B, July 31-August 20.* 3 s.h. MR. WALLIN

S304. The School as an Institution.—*B, June 19-July 30; A, C, July 31-August 20.* 3 s.h. MR. GOLDTHORPE

S305. The Nature, Function, and Reorganization of the Curriculum.—*A, June 19-July 31.* 3 s.h. MR. CARR

Other courses accepted, not to exceed a total of six semester hours, as work in Elementary Education are the following, when the student has the approval of his major professor: S224, S233 or S233A, listed under the division of Supervision; S208, S217, S219, listed under Educational Psychology; and S264 under History of Education.

COURSES RECOMMENDED FOR DEANS OF WOMEN AND OTHER PERSONS INTERESTED IN GUIDANCE AND COUNSELING

Persons interested in preparing for positions such as dean of women, girls' adviser, director of guidance, and the like, are advised to plan a Master's degree consisting of graduate courses drawn from educational psychology and supervision, general psychology, and sociology, from such courses as the following:

Education

- S206. Sociological Foundations of Education.
- S208. Mental Tests and Applications.
- S215. Educational and Vocational Guidance.
- S218. Educational Implications of Genetic Psychology.
- S233. Pupil Accounting, or
- S233A. Pupil Personnel Problems and Procedure.
- S234. Secondary School Organization and Administration.
- S239. Investigations in Tests and Measurements.
- S258. Educational Measurements.
- S287. Problems of Mentally and Educationally Retarded Children.
- S288. Problems of Mental Hygiene and Education.
- S289. Character and Personality Testing.
- S305. The Nature, Function, and Reorganization of the Curriculum.
- S317. Advanced Educational Psychology.

Psychology

- S204. Psychology of Motivation.
- S206. Social Psychology.

Sociology

- S205. Social Pathology.
- S212. Child Welfare.
- S216. Urban Sociology.
- S220. Rural Sociology.
- S236. Social Ethics.

Of course, no one student can take all these courses within the limits of a Master's degree, and there are other courses that individual students may feel they need after consultation with their advisers. The plan is to meet the individual needs of the prospective candidate rather than to prescribe a rigid course that he must follow.

ENGLISH

PROFESSOR NEWMAN I. WHITE, CHAIRMAN—2G WEST DUKE BUILDING; PROFESSOR J. B. HUBBELL, DIRECTOR OF GRADUATE STUDIES—105 EAST DUKE BUILDING

Those who wish to become candidates for the Master's degree in English are expected to have at least twelve semester hours in courses above Sophomore requirements. The Department reserves the right to require additional course work on the graduate level if the work of the student in his first term indicates inadequate preparation. For admission to candidacy with a major in

American Literature, the student must present courses S137-S138 or an acceptable equivalent in American Literature either as part of the twelve stipulated above or in addition to them.

Master's candidates in English are required to complete at least three semester hours in Chaucer or certain other designated courses. Master's candidates who have completed as many as twelve semester hours of graduate work should take also the bibliography course, S301, at their earliest opportunity.

The language requirements for the A.M. degree in English may be satisfied by the knowledge of any of the following languages: French, German, Latin, Greek, or Italian. In exceptional cases when the candidate's thesis requires the use of another language than those listed above, it may by permission of the Graduate English Staff be substituted.

All graduate students in English who enter the Summer Session after June 1, 1940, must take a general examination set by the advisory committee of the Department before they will be admitted to candidacy for a degree. This examination is held at the opening of the first term of the Summer Session each year. It must be passed by every student not later than the beginning of his third term of summer work.

S1. English Composition.—A course in the fundamentals of English composition, oral and written, with special attention to sentence structure, syntax, common errors, etc. Frequent themes. *A, C, July 31-August 20. 3 s.h.*

MISS POTEAT

(All entering Freshmen of the Summer Session are advised to take this and its continuation course, English S2. As in the case of other undergraduate courses, these courses will not be given either term in which the enrollment falls below twelve students.)

S2. English Composition.—A continuation of course S1. *A, C, August 21-September 8. 3 s.h.*

MISS POTEAT

S56. Representative English Writers.—Fielding, Boswell, Goldsmith, Sheridan, Byron, Carlyle, Thackeray, and Strachey will be studied. *A, June 19-July 30. 3 s.h.*

MR. PATTON

S64. English Poetry of the Eighteenth and Nineteenth Centuries.—Readings in Pope, Gray, Collins, Burns, Wordsworth, Coleridge, Byron, Shelley, Keats, Tennyson, Browning, Arnold, Swinburne, Hardy, and Housman. Weekly tests. *A, C, May 29-June 18. 3 s.h.*

MISS POTEAT

S119. History of the Theater.—Selected plays are read for their style, subject matter, and significance; and the history of theater buildings, scenery, acting, etc., is traced. This course deals with Greek and Roman, and Hindu, Chinese, and Japanese drama. *A, C, May 29-June 18. 3 s.h.*

MR. WEST

S122. Play Production.—1. Make-up; lecture and laboratory practice in the fundamentals of juvenile, middle-age, and old-age make-up. 2. Directing: lecture and laboratory work. One-act plays will be used and each student will make a complete director's manuscript and take a course through the process of rehearsals and tryout. If time permits, other related work will be discussed: lighting, stage management, acting, and scenery. *Lectures, 2:30-3:30, every other day beginning June 20; and laboratory, 2:30-4:30 p.m., every other day beginning June 21. June 19-July 30. 3 s.h.*

MR. WEST

S123. Shakespeare: The Histories and Comedies.—*B, June 19-July 30. 3 s.h.*

MR. TALBERT

[Not offered if demand is greater for course S216.]

S126. English Literature of the Romantic Period.—Readings (chiefly of poetry) in the work of the younger Romantics: Byron, Shelley, Keats, Leigh Hunt, Hazlitt, and DeQuincey. Lectures, recitations, and tests. *C, June 19-July 30. 3 s.h.*

MR. PATTON

S139. The Speaking Voice.—This course gives training in placement, pitch, range, and diction for use in professional work and in daily conversation. *B, June 19-July 30. 3 s.h.* MR. WEST

S215. Elizabethan Drama.—A study of Shakespeare's predecessors and early contemporaries. *A, June 19-July 30. 3 s.h.* MR. TALBERT

S216. The English Drama in the Reign of James I.—A study of the later contemporaries of Shakespeare. *B, June 19-July 30. 3 s.h.* MR. TALBERT
[Not offered if demand is greater for course S123.]

S237. English Drama, 1642-1800.—The Heroic Play and the Comedy of Manners of the Restoration period; and the important plays, serious and comic, of the eighteenth century. Lectures, class discussions, and short reports. *C, June 19-July 30. 3 s.h.* MR. WARD

S301. Bibliography and Methods of Research.—This course or its equivalent is required of all candidates for higher degrees. (Limited to 12 students.) *D, June 19-July 30. 3 s.h.* MR. WARD

S329. Seminar in Sixteenth- and Seventeenth-Century English Literature.—Open by permission of the instructor to students who have had at least one course in the drama or other literature of the period, and especially for students writing theses. The Restoration will not be dealt with. *D, June 19-July 30. 3 s.h.* MR. GILBERT

GEOGRAPHY

See courses S109 and S120 under Economics.

GOVERNMENT

See courses listed under Political Science.

GREEK LITERATURE

(In English Translation)

S121. Homer.—The purpose of this course is to give a general survey of the life and civilization of the Greeks, especially to those who have never studied the language but wish to become acquainted with some of the choicest portions of the literature by the use of translation. It is, however, open as an elective to all Juniors and Seniors, whether they know Greek or not. The *Iliad* and *Odyssey* are read in translation and illustrated with stereopticon views of the excavations and discoveries at Troy and other cities of the Mycenaean Age. Reports on assigned topics required. *B, June 19-July 30. 3 s.h.*

MR. ROSE

S122. Greek Literature: The Great Tragedies.—The purpose of this course is similar to that of course S121. Many of the extant plays of Aeschylus, Sophocles, and Euripides are studied in English translations, and reports on assigned topics are required. *A, C, May 29-June 18. 3 s.h.*

MR. ROSE

HISTORY

PROFESSOR WILLIAM T. LAPRADE, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—2B WEST DUKE BUILDING

For admission to candidacy for a Master's degree in History the student must present a total of eighteen semester hours of prior work in History, of which at least six must be in American History if he plans to take his major work in that field. Before enrolling for thesis supervision, candidates for the Master's degree are required to complete at least three semester hours of

seminar work and are strongly urged to enroll for this work in the second term of their attendance in the Summer Session. (See courses numbered 300 or above.)

S52. Historical Background of the World Today.—A study of the immediate forces preliminary to the present world conflict, including such topics as the partition of Africa, European penetration of the Far East, the rise of the United States as a world power and Latin America, European alliances and rivalries, the first World War and the League of Nations, the rise of the totalitarian states, the second World War. *A, June 19-July 30. 3 s.h.*

MR. BREWSTER

S91. Political and Social History of the United States to 1850.—A general study of the development of the United States, prefaced by a brief review of the Colonial era, covering the period from the Revolution through the Compromise of 1850. *A, C, May 29-June 18. 3 s.h.*

MR. BREWSTER

S92. Political and Social History of the United States since 1850.—A continuation of course S91, concluding with an introduction to problems that have arisen in the United States since the World War. *C, June 19-July 30. 3 s.h.*

MR. BREWSTER

S233. The Cultural and Institutional History of Colonial Hispanic America.—*A, June 19-July 30. 3 s.h.*

MR. LANNING

S234. Political and Social Problems in the Hispanic American Republics.—*C, June 19-July 30. 3 s.h.*

MR. LANNING

S236. The South in Federal Politics, 1789-1860.—*B, June 19-July 30. 3 s.h.*

MR. SYDNOR

S315. Seminar in Southern History.—Selected topics in the development of the Southern region, chosen year to year in different periods in its development. *D, June 19-July 30. 3 s.h.*

MR. SYDNOR

MATHEMATICS

PROFESSOR JOHN J. GERGEN, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—03 GRAY BUILDING

The Department of Mathematics will offer in the Summer Session, June 19 to July 30, 1945, those of the following courses for which there is a sufficient demand. A student interested in taking one or two of the courses listed should write as early as possible to the Director of the Summer Session.

For admission to candidacy for the degree of Master of Arts with major in Mathematics a student must have a minimum of twenty-four semester hours of credit for course work in mathematics or related fields. This course work must be approved by the Department through the Director of Graduate Studies. It must include differential and integral calculus and an additional six semester hours of work in mathematical courses of at least junior level.

To obtain the degree a candidate must specialize in one of the following divisions of mathematics: algebra, analysis, or geometry. In his division of specialization he must write his thesis and complete at least twelve semester hours of course work. To help students meet the thesis requirement, the Department offers thesis seminar S389X in which supervision of thesis writing is available.

Each student should, as early as possible in his graduate work, discuss his program with Professor Gergen or his representative.

S225. Theory of Equations.—Permutations, determinants, matrices, linear systems, polynomials, and their roots, constructibility, resultants, discriminants, simultaneous equations. Prerequisite: integral calculus.

S231. Differential Equations.—Solution of differential equations of elementary types, formation and integration of equations arising in applications. Prerequisite: integral calculus.

S235. Modern Algebra.—Groups, rings, fields, polynomials in several indeterminates, reducibility. Prerequisite: integral calculus.

S239. Advanced Calculus.—Continuity and differentiation for functions of one and several variables, Taylor's expansion, integration of functions of one variable. Prerequisite: integral calculus.

S255. Projective Geometry.—Postulational, synthetic treatment, centering around Desargues' theorem, the principle of projectivity, and the principle of duality; introduction of co-ordinate systems. Prerequisite: integral calculus.

S259. Solid Analytic Geometry.—Cartesian and tetrahedral co-ordinates, configurations of planes and straight lines, quadric surfaces, algebraic curves. Prerequisite: integral calculus.

S389X. Thesis Seminar.—Supervision of individual theses in algebra, analysis, and geometry. Students should consult the Director of Graduate Studies or his representative before registering. *Thesis credit only.*

PHYSICS

S1-S2. General Physics.—This course traces historically and experimentally the development of great principles. It stresses neither mathematical processes nor exact measurements. Three-hour recitation and two-hour laboratory daily. *Lectures, 1, 2, 3; laboratory, 2:00-4:00 P.M., I, July 17-September 3. 8 s.h. (w) (Laboratory fee, \$4.00.)* MR. HATLEY

POLITICAL SCIENCE

S61. American Government and Politics.—A study of the American political system, emphasizing the organization and functioning of the national government. *A, C, May 29-June 18. 3 s.h.* MR. HORN

S62. American Government and Politics.—A study of the American political system, emphasizing the organization and functioning of state and local government. Continuation of S61. *A, C, June 19-July 9. 3 s.h.* MR. HORN

S225. Comparative Government: European Constitutional.—A comparative study of modern political institutions with particular attention to European constitutional government and politics. *B, June 19-July 20. 3 s.h.* MR. COLE

S226. Comparative Government: Authoritarian and Dictatorial.—A comparative study of modern political institutions with particular attention to European authoritarian and dictatorial government and politics. *C, June 19-July 20. 3 s.h.* MR. COLE

RELIGION

PROFESSOR BENNETT HARVIE BRANSCOMB, DEAN OF THE DIVINITY SCHOOL—110
DIVINITY SCHOOL; PROFESSOR H. SHELTON SMITH, CHAIRMAN
AND DIRECTOR OF GRADUATE STUDIES—LIBRARY

S167. Contemporary Religious Problems.—A course that deals with the main interests of life from the standpoint of their social and religious significance. *C, June 19-July 30. 3 s.h.* MR. SPENCE

S182. Living Religions of the World.—A survey of the religious systems of India, China, and Japan, followed by a study of Judaism, Mohammedanism, and Christianity, the object being to trace the historical development of each religion. *B, June 19-July 30. 3 s.h.* MR. CANNON

S203. The Old Testament.—The origin, literary forms and contents of the books of the Old Testament in their geographical and historical setting. *C, June 19-July 30. 3 s.h.* MR. STINESPRING

S222. Theology and Philosophy in the Nineteenth Century.—A study of Protestant thought from Schleiermacher to Troeltsch, with special attention to the reciprocal relations between theology and metaphysics. Prerequisite: six semester hours in philosophy or its equivalent. *A, C, August 21-September 8. 3 s.h.* MR. CUSHMAN

S291. Christian Ethics I.—An historical and systematic study of Christian conceptions of the moral life. *B, May 29-July 9. 3 s.h.* MR. SMITH

S296. Problems of Teaching Religion in the Secondary Schools.—A consideration of such problems as the needs for week-day religious education and the difficulties of offering it in public schools, various plans of week-day religious education, the organization of curriculum and community relationships, problems of personnel, evaluation of courses and results. *A, June 19-July 30. 3 s.h.* MR. GWYNN

S310. Old Testament Prophecy.—A study of the social teachings of the Old Testament with special reference to the prophets of the eighth century B.C. *A, July 10-August 20. 3 s.h.* MR. STINESPRING

S321. Introduction to Theology.—An examination of types of theological method and an indication of some of the results obtained through a resort to observation and experience in theological investigation. *B, July 10-August 20. 3 s.h.* MR. ROWE

S326. Christian Doctrine: Eschatology.—A study of "the last things" in the light of the Christian hope for the individual and for society with special consideration of the Christian doctrine of immortality. Prerequisite: Introduction to Theology. *C, July 10-August 20. 3 s.h.* MR. ROWE

S334. Church Reformers and Christian Unity.—The work of such reformers as Marsilius of Padua, William of Ockham, John Gerson, Pierre d'Ailly, and Nicholas of Cusa in relation to ecclesiastical schism and the search for Christian unity through representative councils. *B, May 29-July 9. 3 s.h.* MR. PETRY

S339. Methodism.—A survey of the Methodist movement in England and America. *A, May 29-July 9. 3 s.h.* MR. PETRY

S394. Religious Thought in Modern America.—A survey of the main currents in later American religious and ethical thought, with special attention to liberal Protestantism. *A, May 29-July 9. 3 s.h.* MR. SMITH

SOCIOLOGY

PROFESSOR HOWARD E. JENSEN, ACTING CHAIRMAN AND DIRECTOR OF
GRADUATE STUDIES—203 CARR BUILDING

Attention is called to the fact that Sociology S101 is prerequisite to all other courses in the Department.

S101. General Sociology.—An introduction to the scientific study of social life; its origin, evolution, and organization as illustrated by the study of a number of concrete social problems. This course is prerequisite to all other courses in sociology. *A, C, May 29-June 18; A, June 19-July 30. 3 s.h.*

MR. THOMPSON, MR. HART

[Not offered June 19-July 30 if demand is greater for course S225.]

S205. Social Pathology.—A study of the causes, extent, significance, and constructive treatment of the principal forms of pathology in modern society: poverty, physical defectiveness, malnutrition, mental deficiency, mental disease, undirected leisure activities and unstandardized commercial recreation, alcoholism, prostitution, vagrancy, and delinquency. *A, June 19-July 30. 3 s.h.*

MR. JENSEN

S212. Child Welfare.—A study of heredity and environment as factors in personality development; infant conservation; welfare responsibilities of the school, emphasizing the physical and mental well-being of the child, play, and compulsory and industrial education; child labor, diagnosis and treatment of delinquency; care of the dependent and neglected child; child-caring agencies, public and private; and a community program of child welfare. *B, June 19-July 30. 3 s.h.*

MR. JENSEN

S216. Urban Sociology.—This course studies the function of the city in the larger community which it nucleates both as market and as industrial center. More detailed attention, however, is given to the inner life and problems of the city. *A, C, July 31-August 20. 3 s.h.*

MR. THOMPSON

S225. Statistical Methods in Sociology.—Deals with the processes of definition, classification, measurement, tabulation, association, correlation, comparison of averages and percentages, causation, prediction, preparation and interpretation of charts and graphs, as applied to and illustrated by sociological data. Prerequisite: course 91-92, 101, or 131-132. *A, June 19-July 30. 3 s.h.*

[Not offered if demand is greater for course S101.]

MR. HART

S236. Social Ethics.—An attempt to develop answers to such questions as: How can potential leaders discover and acquire the skills required for rendering their fullest service to their fellow men—particularly capacities for creative co-operation and insight? On what intellectually and scientifically sound basis can one formulate the fundamental policies of one's life? On what ultimate criteria are social policies to be based? *B, June 19-July 30. 3 s.h.*

MR. HART

SPANISH

PROFESSOR OLAV K. LUNDEBERG, DIRECTOR OF THE SCHOOL OF SPANISH STUDIES—115 CARR BUILDING

All Spanish courses, whether undergraduate or graduate, will be conducted in the "School of Spanish Studies" centered on the East Campus. Dormitory and boarding arrangements should be made with this in mind.

(Attention is called to the fact that courses 1, 2, and 4 will meet four days weekly in regular morning session. The fifth meeting will be a conversation class meeting from 7:00-8:00 p.m. at the Residencia Parlor, with the regular instructor in charge. These *charlas* begin in the second week of the session and attendance is required of those enrolled for credit.)

S1. Introductory Spanish.—Pronunciation; essentials of grammar; early reading of simple prose; dictation; emphasis on attainment of reading ability accompanied by constant use of the language as a means of instruction; abundant oral work to give the student a basic understanding of the spoken language. *A, C, June 18-July 10. 3 s.h.* Charla I, Wednesday, 7:00 p.m.

MRS. DILLINGHAM

S2. Introductory Spanish.—Continuation of course S1. *A, C, July 11-July 28. 3 s.h.*

MRS. DILLINGHAM

S3. Intermediate Spanish.—Systematic review of verbs, drill on idioms of high frequency, review of special grammatical difficulties; reading of graduated selections from modern prose authors; dictation and oral work. *C, June 18-July 28. 3 s.h.*

MR. DAVIS

S4. Intermediate Spanish.—Rapid reading and analysis of modern prose works, with emphasis on achievement of ability to read without translation. *A, June 18-July 28. 3 s.h. Charla II, Thursday, 7:00 p.m.*

MRS. CASTELLANO

S65. Introduction to Modern Spanish Literature.—Study of representative masterpieces of nineteenth-century novel and drama; lectures; collateral reference readings on literary backgrounds. One standard-length novel will be read outside of class. *A, June 18-July 28. 3 s.h.*

MR. DAVIS

S68. Introduction to Spanish-American Literature.—Study of typical works in the field of the novel and lyric, chiefly of the modern period; lectures on literary, social, and cultural backgrounds and tendencies; collateral readings. This course is offered as an alternate to Spanish 66 (Introduction to Classical Spanish Literature) and will be accepted in fulfillment of major and graduation requirements. *C, June 18-July 28. 3 s.h.*

SRA. DE GUERRA

S173. Advanced Oral Spanish.—This course will offer intensive oral practice with a view to increase the student's fluency of expression under everyday conditions. Special stress will be laid on correction of mistakes in pronunciation, recitation of selected prose and verse specimens, and drill on authentic Spanish expressions used in conducting classroom exercises. If enrollment justifies it, this class will be conducted partly on the A.S.T.P. plan, using native *informants*. Enrollment limited to fifteen students. Prerequisite: three full years of college Spanish, or teaching experience and consent of instructor. (An extra registration fee of \$5.00 will be charged for this course to defray cost of special materials and instruction.) *D, June 18-July 28. 3 s.h.*

SR. CASTELLANO

S255. Problems in the Learning and Teaching of Spanish.—The content of this course will be divided into three units covering important phases of the language teacher's professional equipment: I, Linguistics, The Spanish Language in the Americas; II, Professional Orientation and Backgrounds; III, New Aids and Materials for Teaching Spanish. (This course will be conducted with free use of the "Teacher's Workshop." See special announcement. Conducted mainly in English.) Prerequisite for credit: the usual prerequisite for a 200 course and completion of a study project. Open to any one by consent of instructor on an auditory basis. *B, June 18-July 28. 3 s.h.*

MR. RUSSELL AND VISITING SPECIALISTS

S264. El teatro español contemporáneo.—Breve noticia del teatro español desde el romanticismo. Estudio de los principales dramaturgos contemporáneos. Conferencias, lectura y discusión de las obras más representativas de Benavente, Martínez Sierra, los hermanos Quintero, etc. *A, June 18-July 28. 3 s.h.*

SR. CASTELLANO

S277. Instituciones culturales de la América hispana.—Versará este curso sobre el desarrollo de la cultura hispanoamericana visto a través de la literatura. Conferencias, lecturas comentadas, discusiones e informes sobre tópicos pertinentes. *A, June 18-July 28. 3 s.h.*

SR. TORRES

FOR GRADUATES ONLY

S370. Thesis Problems.—Hours and credit to be arranged. Those who have begun work on a thesis or who plan to begin preparation of same will report at Director's office in Carr Building on June 21 or 22 between 11:30 and 12:30. *C, June 18-July 28. 3 s.h.*

MR. LUNDEBERG, SR. TORRES

S377. Los grandes novelistas modernos hispanoamericanos.—Tendencias autóctonas: Novela indianista, gauchesca, de temas sociales, de ambiente americano. El estilo modernista en la novela. Grandes novelas: *Don Segundo Sombra*; *La Vorágine*, *Doña Bárbara*, *Los De Abajo*, *El Mundo Es Ancho y Ajeno*, *Historia De Una Pasión Argentina*, etc. Conferencias, explicación de texto, lecturas comentadas, informes. *C. 3 s.h.*

SR. TORRES

NOTE: SPANISH "WORKSHOP"

In connection with the School of Spanish Studies, there will be conducted from June 18-July 28, a "South Atlantic Inter-American Teacher's Workshop" sponsored jointly by the Summer Session and the Office of the Co-ordinator of Inter-American Affairs, Department of State, Washington, D. C. Dr. Russell will serve as the Executive Secretary of the "Workshop," which will include intensive work with native and American specialists on topics and problems of interest to teachers of Spanish and Spanish-American History.

For further information, address The Director of Summer Session, Duke University.

ZOOLOGY

PROFESSOR IRVING E. GRAY, CHAIRMAN—218 BIOLOGY BUILDING; PROFESSOR GEORGE T. HARGITT, DIRECTOR OF GRADUATE STUDIES—326 BIOLOGY BUILDING

For admission to candidacy for a Master's degree in Zoology, students should have completed an undergraduate major in Zoology (courses in General Science and Botany are not counted as a part of a Zoology major). This normally amounts to about twenty-four semester hours, which should be distributed among the various fields of Zoology, and must include Vertebrate Zoology or Comparative Anatomy, Physiology, and Embryology, passed with creditable grades. A candidate should also have completed at least one year of Chemistry. Work for the degree will require eighteen hours in advanced courses in Zoology, and six hours in another department for a minor, in addition to a thesis. Before registration for a degree, students should confer with the Director of Graduate Studies for the Department. Students not candidates for a degree may take courses offered, if they have necessary prerequisites; but may not count them toward a degree until an undergraduate major has been completed.

S1. General Zoology.—A brief survey of the animal kingdom. *Lectures, quizzes, and laboratory, six hours daily, June 12-July 5. 4 s.h. (Laboratory fee, \$3.00.)* MISS JEFFERS

S2. Animal Biology.—A study of the principles of biology as applied to animals. *Lectures, quizzes, and laboratory, six hours daily, July 6-30. 4 s.h. (Laboratory fee, \$3.00.)* MISS JEFFERS

S206. Marine Biology.—A study of animals and plants that occur in the Beaufort region. A number of field trips will be made to a variety of habitats to study, collect, and classify specimens in their natural environments. *June 18-July 30. 6 s.h. Offered at Duke Marine Laboratory, Beaufort. (Laboratory fee, \$6.00.)* MR. HUMM

(Write for special announcement of problem and research courses offered at Beaufort.)

Specimen Application Blank

DIRECTOR OF THE SUMMER SESSION, COLLEGE STATION
DURHAM, NORTH CAROLINA

Date.....

Dear Sir :

Please make temporary reservation for me in the following courses described in your Summer Session Announcement :

.....
.....
.....
(Signed, full name)

Mr., Mrs., Miss.....

Street.....

Post Office Address.....

Be careful to give the following information:

Are you a teacher in the public schools?..... Total number, years

teaching experience..... Name and address of the school in which

now teaching.....

What teacher's certificate do you hold?.....

State..... Serial number..... Year of expiration.....

Name of high school from which you were graduated.....

..... Year.....

College training completed :

(Please check proper amount in years) : One (), Two (), Three (), Four ()

Name of last college attended..... Date.....

Graduate work (please check in years) : One (), Two (), Three ().

Last graduate work in..... college or university

College degrees held, if any, (please check) : () A.B., () B.S., () A.M.

() M.Ed., () M.S.

If at present a college student, where?.....

What class?..... How many years of graduate work, if any, have

you completed?..... In what department(s) ?.....

.....

Do you wish room reserved?..... Alone?.....

First term?..... Second?..... Name and address

roommate preferred.....

.....

In graduate dormitory?..... Undergraduate?.....

N.B. Graduate dormitories are not open to undergraduates under thirty years of age. Room reservations of graduate students are tentative until the student has been accepted by the Graduate School. Students who wish a room reserved for the first term will remit full amount of room-rent; other students simply indicate whether they desire room in graduate or undergraduate dormitory. *The Summer Session reserves the right to cancel room reservation registration for courses without assignment of reason.*

Note: Students who do not wish to submit transcripts of their previous college record because desiring to transfer their summer session credits to some other institution, should answer the following :

Do you wish blank for statement from your college certifying your present class standing and requesting transfer of your summer session record?.....



VOLUME 17

March, 1945

NUMBER 3-B

BULLETIN OF DUKE UNIVERSITY

The School of Nursing

1945-1946



PUBLISHED BY THE UNIVERSITY

DURHAM, NORTH CAROLINA

ANNUAL BULLETINS

For GENERAL BULLETIN of Duke University, apply to *The Secretary*, Duke University, Durham, N. C.

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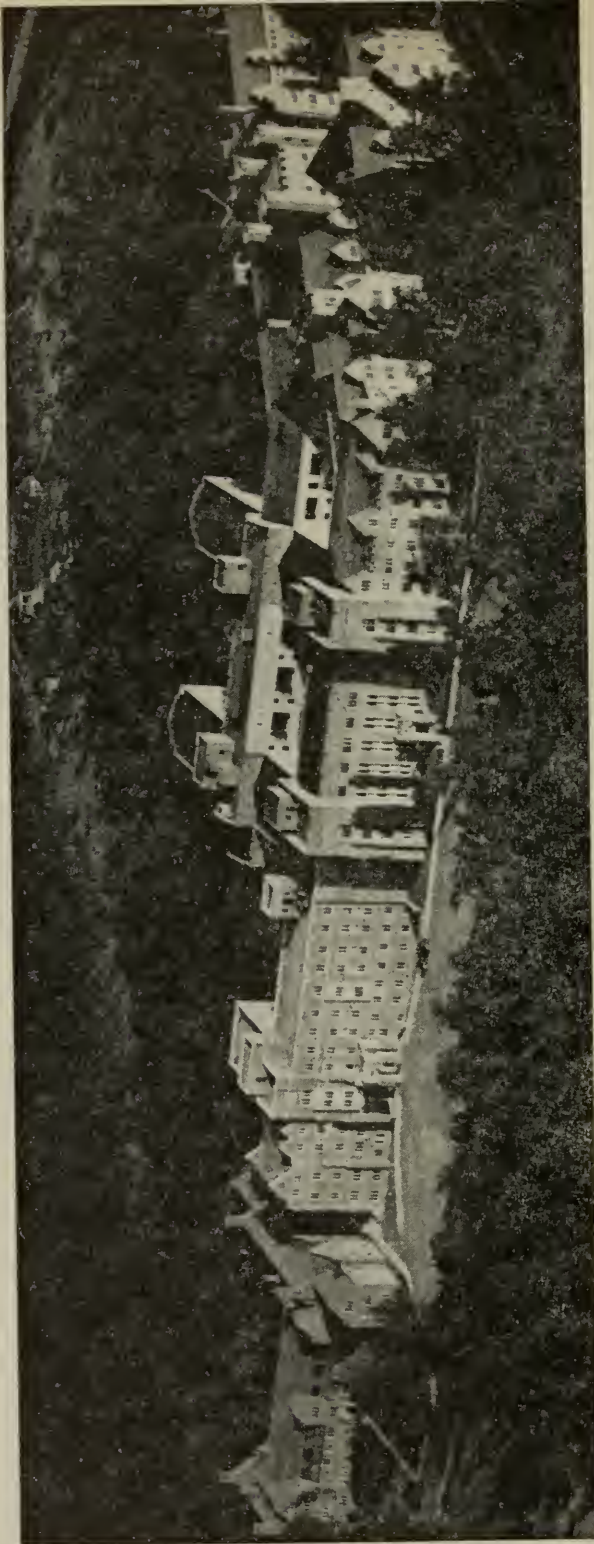
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BULLETIN
OF
DUKE UNIVERSITY
THE SCHOOL OF NURSING



1945-1946

DURHAM, NORTH CAROLINA
1945



NURSES' HOMES
343 Beds

PRIVATE DIAGNOSTIC
CLINIC

114 Beds

MAIN HOSPITAL
604 Beds

SCHOOL OF NURSING
258 Students

PUBLIC CLINIC
107,783 Visits
Yearly

MEDICAL SCHOOL
292 Students

FOREWORD

This bulletin is issued for prospective students of nursing. Admissions into any class are made only on the understanding that every decision of the School of Nursing Curriculum Committee shall apply to all students, even though it is made subsequently to their enrollment in the School. At frequent intervals the Committee reviews the records of all students, and those whose progress has been unsatisfactory may be required to leave the School. ONLY THOSE WILL BE ADVANCED WHO, IN THE OPINION OF THE COMMITTEE, GIVE PROMISE OF BEING A CREDIT TO THEMSELVES AND TO THE SCHOOL.

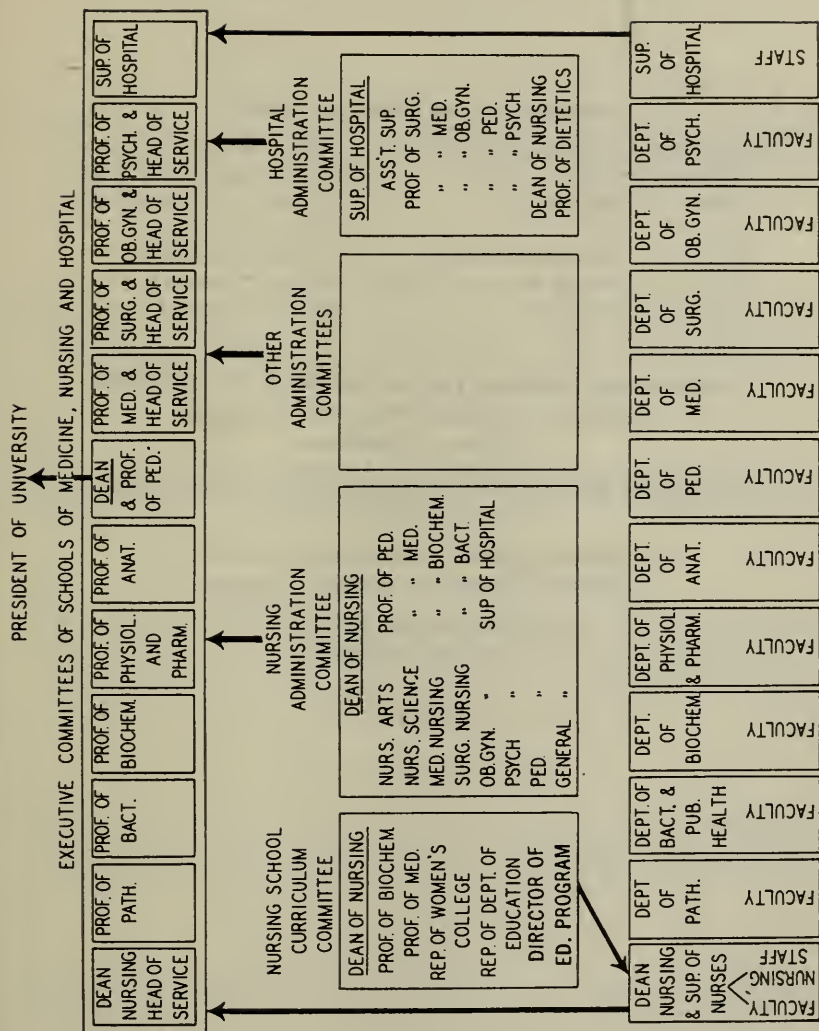
SCHOOL OF NURSING CALENDAR 1945-1946

1945

- Sept. 27. Thursday—Registration of new students.
Oct. 1. Monday—Autumn Quarter begins.
Nov. 22. Thursday—Thanksgiving: a holiday.
Dec. 22. Saturday—Autumn Quarter ends.
Dec. 31. Monday—Winter Quarter begins.

1946

- March 16. Saturday—Winter Quarter ends.
March 25. Monday—Spring Quarter begins.
April 22. Monday—Easter Monday: a holiday.
June 8. Saturday—Spring Quarter ends.
June 10. Monday—Summer Quarter begins.
Sept. 28. Saturday—Summer Quarter ends.
Sept. 30. Monday—Autumn Quarter begins.
Dec. 14. Saturday—Autumn Quarter ends.



SCHOOL OF NURSING COUNCIL

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DAVID T. SMITH, M.D.	RUTH A. WILSON
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VERA T. McCULLOCH	EDITH V. BRYANT

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Professor of Medicine

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Professor of Biochemistry

MARGARET ISABEL PINKERTON, R.N., B.S.
Dean and Professor of Nursing Education

CAROL POOLE, R.N., B.S.
Science Instructor

FACULTY OF THE SCHOOL OF NURSING

MARGARET ISABEL PINKERTON, R.N., B.S.

Dean of the School of Nursing and Professor of Nursing Education

Diploma, University of Virginia Hospital School of Nursing, 1927; Assistant Superintendent of Nurses, Stuart Circle Hospital, Richmond, Va., 1928-30; Hostess, University of Virginia Hospital, 1930-31; Assistant Superintendent of Nurses, University of Virginia Hospital, 1931-35; B.S. in Nursing Education, Teachers College, Columbia University, 1936; Nursing Arts Instructor, Washington University School of Nursing, St. Louis, Mo., 1936-37; Superintendent of Nurses, Barnes Hospital, 1938-39; *Dean of the School of Nursing and Professor of Nursing Education, 1939—*.

JULIA ELIZABETH WHITE, A.B., R.N.

Chief Nurse, 65th General Hospital

A.B., Newberry College, Newberry, S. C., 1927; Diploma, Johns Hopkins Hospital School of Nursing, 1930; Head Nurse, Assistant Night Supervisor, Harriet Lane Home, Johns Hopkins Hospital, 1930-32; Assistant Night Supervisor, Duke Hospital, 1933-36; First Assistant to the Dean, 1936-42; *Chief Nurse, 65th General Hospital, 1942—*.

VERA THOMAS McCULLOCH, R.N.

First Assistant to the Dean

Diploma, Duke University School of Nursing, 1935; General Duty, 1935-36; Head Nurse, Men's Surgical Ward, 1936-40; Instructor in Surgery and Supervision of Surgical Nursing, 1940-41; Second Assistant to the Dean, 1941-44; *First Assistant to the Dean, 1944—*.

HILDA CLAIRE BURNHAM, R.N.

Instructor in Principles and Practice of Nursing

Johns Hopkins University, 1925-27 and 1932-34; Diploma, Johns Hopkins Hospital School of Nursing, 1930; Head Nurse, Isolation Ward, Johns Hopkins Hospital, 1930-31; Assistant Night Supervisor, Johns Hopkins Hospital, 1931-33; Night Supervisor, Osler Medical Clinic, Johns Hopkins Hospital, 1933-34; Assistant Supervisor and Ward Instructor, Osler Medical Clinic, Johns Hopkins Hospital, 1934-37; Medical Supervisor and Instructor in Medicine, Duke Hospital, 1937-39; Second Assistant to the Dean, 1939-40; *Instructor in Principles and Practice of Nursing, 1940—*.

HELEN W. ABBOTT, R.N.

Head of Nurses' Residences

Diploma, Johns Hopkins School of Nursing, 1914; Private duty, Baltimore, Md., 1914-15; Operating Room and Pediatric Supervisor, Bellevue Allied Hospitals, 1915-16; Nursing Arts Instructor, Augusta University Hospital, 1917; Supervisor of Nurses' Quarters, Fort Meade, Md., 1918; Practical Nursing Instructor, Army School of Nursing, Fort Meade, Md., 1919; *Head of Nurses' Residences, Duke Hospital, 1930—*.

AUGUSTA LAXTON, R.N., B.S.

Night Supervisor

B.S., Florida State College for Women, Tallahassee, Fla., 1921; Diploma, Johns Hopkins Hospital School of Nursing, 1926; District Nurse, Co-operative Nursing Association, Charlotte, N. C., 1928-30; Night Supervisor, Duke Hospital, 1930-36; Head Nurse, Maternity Clinic, Charlotte, N. C., 1936-39; *Night Supervisor, 1939—*.

MARION FRANCES BATCHELDER, R.N.

Instructor in Operating Room Technique, Supervisor of the Operating Room

Diploma, Peter Bent Brigham Hospital School of Nursing, Boston, Mass., 1920; Head Nurse, 1921-23; Supervisor of Operating Room, Peter Bent Brigham Hospital, 1923-27; Head Nurse, Operating Room, Johns Hopkins Hospital, 1927-30; *Supervisor of Operating Room, 1930—*.

MILDRED M. SHERWOOD, R.N.

Instructor in Pediatrics and Supervisor of Pediatric Service

Diploma, Mount Sinai Hospital, New York City, 1923; Head Nurse, Mount Sinai Hospital, 1923-26; Head Nurse, Johns Hopkins Hospital, 1926-30; *Instructor in Pediatrics and Supervisor of Pediatric Service, 1930—.*

ROSABELLE WEHUNT HAMPTON, R.N.

Instructor in Surgery and Supervisor of Surgical Service

Diploma, Duke University School of Nursing, 1936; Assistant Head Nurse, Duke Hospital, 1936-37; Head Nurse Women's Surgical Ward, 1937-41; University of North Carolina, 1937 and 1940; Teachers College, Columbia University, 1941; *Instructor in Surgery and Supervisor of Surgical Nursing, 1941—.*

RUTH ALEXANDER WILSON, R.N., B.S.

Instructor in Obstetrics and Gynecology and Supervisor of Obstetrical and Gynecological Service

Mitchell College, Statesville, N. C., 1934-36; Diploma, Duke University School of Nursing, 1939; B.S., Duke University School of Nursing, 1940; Assistant Head Nurse, Colored Medical and Surgical Ward, Duke Hospital, 1939-40; Nurses' Corps, United States Navy, 1941; *Instructor and Supervisor of Obstetrics and Gynecology, 1942—.*

EDITH V. BRYANT, R.N., B.S.

Instructor in Medicine and Supervisor of Medical Service

Elon College, Elon College, N. C., 1936-38; Diploma, B.S. in Nursing, Duke University School of Nursing, 1941; Assistant Head Nurse, Men's Surgical Ward, 1941-42; Head Nurse, Men's Surgical Ward, 1942; Head Nurse on Colored Medical and Surgical Ward, 1942-43. *Instructor in Medicine and Supervisor of Medical Service, 1943—.*

JULIA BRADSHAW SUITT, R.N.

Supervisor of Nursing Service in Dispensary

North Carolina College for Women, Greensboro, N. C., 1919-20; Diploma, Duke University School of Nursing, 1934; Assistant Head Nurse, Medical Ward, 1934-36; Head Nurse, Private Surgical Ward, 1936-43. *Supervisor of Nursing Service in Dispensary, 1943—.*

OLIVE HARDING, R.N.

Assistant Supervisor of the Operating Room

Carson-Newman College, Jefferson City, Tenn., 1918-21; Diploma, Kings Mountain Memorial Hospital, Bristol, Va., 1929; Valparaiso University, Valparaiso, Ind., 1923; Night Supervisor, Marsh Hospital, Kingsport, Tenn., 1929; Postgraduate Course in Operating Room, Cook County Hospital, Chicago, Ill., 1930; General Duty, Duke Hospital, 1930-34; Head Nurse in Operating Room, 1934-42; *Assistant Supervisor of the Operating Room, 1942—.*

ELIZABETH SANDERS RIDDLEBERGER, A.B., R.N., M.A.

Assistant Science Instructor

Agnes Scott College, Decatur, Ga., 1923-27; Diploma, Highland Hospital, Asheville, N. C., 1935; Postgraduate Course in Psychiatric Nursing, Highland Hospital, Asheville, N. C.; University of Washington, Seattle, Wash., 1941; William and Mary College, Williamsburg, Va., 1941-42; Assistant Instructor of Nurses, Highland Hospital, Asheville, N. C., 1935-38; Instructor of Nurses, Highland Hospital, Asheville, N. C., 1938-41; General Duty, Duke Hospital, 1942; Assistant Head Nurse on Psychiatry, 1942-43; Head Nurse on Psychiatry and Instructor in Psychiatric Nursing, 1943; *Assistant Science Instructor, 1943—.*

CAROL POOLE, R.N., B.S.

Science Instructor

Woman's College of Furman University, Greenville, S. C., 1937-39; Diploma and B.S. in Nursing, Duke University School of Nursing, 1942; Assistant Head Nurse on Women's Medical Ward, 1942-43; Head Nurse on Women's Medical Ward, 1943-44; Private Floor Supervisor, February, 1944-December, 1944; *Second Assistant Science Instructor, December, 1944—.*

HELEN IDA TIERNEY, R.N., B.S., A.B.

Assistant to the Instructor in Principles and Practice of Nursing

University of Miami, Coral Gables, Fla., 1939-42; Diploma and B.S. in Nursing, Duke University School of Nursing, 1945; *Assistant to the Instructor in Principles and Practice of Nursing, 1945—.*

EUGENIA RICHARDS LAMBETH, R.N., B.S.

Assistant to the Instructor in Principles and Practice of Nursing

Queens-Chicora College, Charlotte, N. C., 1930-31; Mitchell College, 1931-32; Diploma and B.S. in Nursing, Duke University School of Nursing, 1939; Assistant Head Nurse on Women's Surgical Ward, 1939-41; Head Nurse on Women's Surgical Ward, 1941-42; University of North Carolina, 1941; *Assistant to the Instructor in Principles and Practice of Nursing, 1942—.*

MARY ALICE MOORE, R.N., B.S.

Assistant to the Instructor in Principles and Practice of Nursing

Madison College, Harrisonburg, Va., 1937-39; Diploma and B.S. in Nursing, Duke University School of Nursing, 1942; Head Nurse on Men's Surgical Ward, 1942-43; *Second Assistant to the Instructor in Principles and Practice of Nursing, 1943—.*

KATIE ADAMS HODGE, R.N., B.S.

Assistant to the Instructor in Principles and Practice of Nursing

Madison College, Harrisonburg, Va., 1938-39; Diploma, B.S. in Nursing, Duke University School of Nursing, 1943; *Third Assistant to the Instructor in Principles and Practice of Nursing, 1943—.*

MARTHA LIGON GRIMMETT, R.N., B.S.

Assistant to the Instructor in Principles and Practice of Nursing

Madison College, Harrisonburg, Va., 1937-39; Diploma and B.S. in Nursing, Duke University School of Nursing, 1942; Health Office, 1943; Psychiatric Nursing, Johns Hopkins Hospital, Baltimore, Md., 1943-44; *Assistant to the Instructor in Principles and Practice of Nursing, 1944—.*

ELSIE GERTRUDE MOSS, R.N.

Private Floor Supervisor

Diploma, Philadelphia General Hospital, Philadelphia, Pa., 1935; Staff Nurse, Duke Hospital, 1935-41; Second Assistant to the Night Supervisor, 1941-42; First Assistant to the Night Supervisor, 1942-44; *Private Floor Supervisor, 1944—.*

ELLEN KEESEE CRAVER, R.N., B.S.

First Assistant to the Night Supervisor

Averett College, Danville, Va., 1938-39; Madison College, Harrisonburg, Va., 1939-40; Diploma and B.S. in Nursing, Duke University School of Nursing, 1943; Second Assistant to the Night Supervisor, 1943-44; *First Assistant to the Night Supervisor, 1944—.*

EDITH LUCILLE SMITH, R.N.

Second Assistant to the Night Supervisor

Mars Hill Junior College, Mars Hill, N. C., 1936-38; Diploma, Duke University School of Nursing, 1944; *Second Assistant to the Night Supervisor, 1944—.*

MARJORIE LONG BENBOW, R.N.

Second Assistant to the Night Supervisor

Woman's College, University of North Carolina, Greensboro, N. C., 1938-40; Diploma, Duke University School of Nursing, 1944; *Second Assistant to the Night Supervisor, 1944—.*

JEWEL VOSS, R.N.

Health Nurse

Woman's College, University of North Carolina, Greensboro, N. C., 1940-41; Diploma, Duke University School of Nursing, 1944; *Health Nurse, 1944—.*

EDITH JUNE STONE, R.N.

Nursing Office Assistant

Diploma, Duke University School of Nursing, 1942; *Nursing Office Assistant*, 1942—.

CLARA COOK BARTLETT, R.N.

Nursing Office Assistant

Farmville State Teacher's College, Farmville, Va., 1938-39; Diploma, Duke University School of Nursing, 1942; *Nursing Office Assistant*, 1943—.

JOYCE ELIZABETH WARREN, R.N., B.S., A.B.

Nursing Office Assistant

Pineland College, Salemburg, N. C., 1928-30; East Carolina Teachers College, 1930-32; Diploma and B.S. in Nursing, Duke University School of Nursing, 1945; *Nursing Office Assistant*, 1945—.

JESSAMINE ROBERTS FLEMING, R.N., B.S.

Assistant to the Instructor in Principles and Practice of Nursing

Flora Macdonald College, Red Springs, N. C., 1939-41; Diploma and B.S. in Nursing, Duke University School of Nursing, 1944; Head Nurse on Men's Surgical Ward, 1944-45; *Assistant to the Instructor in Principles and Practice of Nursing*, 1945—.

THERESA ELIZABETH HORTON, R.N., B.S.

Assistant Instructor in Obstetrics and Gynecology and Supervisor of Obstetrical and Gynecological Service

Catawba College, Salisbury, N. C., 1936-38; Diploma and B.S. in Nursing, Duke University School of Nursing, 1941; P.R.N. Day Duty, 1941-42; Head Nurse on Colored Obstetric and Gynecological Ward, 1942-44; *Assistant Instructor in Obstetrics and Gynecology and Supervisor of Obstetrical and Gynecological Service*, 1944—.

EDITH GEORGIANA GUNTER, R.N., B.S.

Assistant to the Instructor in Surgery and Supervisor of Surgical Service

Lincoln Memorial University, Harrogate, Tenn., 1939-41; Diploma and B.S. in Nursing, Duke University School of Nursing, 1944; *Assistant to the Instructor in Surgery and Supervisor of Surgical Service*, 1944—.

HEAD NURSES

GRACE SHIELDS, R.N.

Head Nurse on Private Surgical Ward

Diploma, Memorial Hospital, Danville, Va., 1930; Private Duty, 1930-31; General Duty, Duke Hospital, 1931-35; Assistant Head Nurse on Private Surgical Ward, 1935-40; *Head Nurse on Private Surgical Ward*, 1940—.

F. SUE TAYLOR, R.N.

Head Nurse on Obstetric and Gynecological Ward

Diploma, The Watts Hospital School of Nursing, 1942; General Duty, Duke Hospital, 1942; Assistant Head Nurse, Obstetric and Gynecological Ward, 1942-43; General Duty in Dispensary, 1943; Assistant Head Nurse, Obstetrical and Gynecological Ward, 1943-44; *Head Nurse, Obstetric and Gynecological Ward*, 1944—.

LOLA PAGE JONES, R.N.

Head Nurse in Nursery

Diploma, Baptist Hospital, Winston-Salem, N. C., 1929; Postgraduate Work, Lying-In Hospital, New York, 1930; Private Duty, Raleigh, N. C., 1931-32; Assistant Head Nurse, Nursery in Duke Hospital, 1932-37; *Head Nurse in Nursery*, 1937—.

TWILA QUARLES POPE, R.N.

Head Nurse on Obstetric Ward

Diploma, North Carolina State Sanatorium, Sanatorium, N. C., 1940; General Duty, Duke Hospital, 1940-42; Assistant Head Nurse on Obstetric Ward, 1942; *Head Nurse on Obstetric Ward, 1942—.*

ETHEL MALLARD FARRIOR, R.N.

Head Nurse on Women's Medical Ward

Campbell College, Buies Creek, N. C., 1939-40; Diploma, Duke University School of Nursing, 1944; Health Office, 1944-45; *Head Nurse on Women's Medical Ward, 1945—.*

MARY EZZELL GLENN, R.N., B.S.

Head Nurse on Men's Surgical Ward

Mars Hill College, Mars Hill, N. C., 1939-41; Diploma and B.S. in Nursing, Duke University School of Nursing, 1944; *Head Nurse on Men's Surgical Ward, 1944—.*

VIOLETTE CARY ROANE, R.N.

Head Nurse on Women's Surgical Ward

Texas State College for Women, Denton, Texas, 1940-41; Diploma, Duke University School of Nursing, 1944; *Head Nurse on Women's Surgical Ward, 1944—.*

LUCY SCOTT OSBORNE, R.N.

Head Nurse on Men's Medical Ward

Diploma, Duke University School of Nursing, 1944; *Head Nurse on Men's Medical Ward, 1944—.*

MARTHA ELIZABETH HOUSE, R.N.

Head Nurse on Colored Medical and Surgical Ward

Campbell College, Buies Creek, N. C., 1940-41; Diploma, Duke University School of Nursing, 1944; *Head Nurse on Colored Medical and Surgical Ward, 1944—.*

ELENORE CUTLIP SALES, R.N., B.S.

Head Nurse on Psychiatric Ward

Marshall College, Huntington, W. Va., 1938-40; Diploma and BS. in Nursing, Duke University School of Nursing, 1943; *Head Nurse on Private Medical Ward, 1943-44; Head Nurse on Psychiatric Ward, 1944—.*

MARGARET MILTON GATES, R.N.

Head Nurse on Colored Obstetric and Gynecological Ward

Middle Georgia College, 1936-38; Diploma, Duke University School of Nursing, 1941; Assistant Head Nurse on Obstetrical Ward, 1941-42; Assistant Head Nurse on Colored Obstetric and Gynecological Ward, 1943-44; *Head Nurse on Colored Obstetric and Gynecological Ward, 1944—.*

ANNE ELIZABETH BENNETT, R.N., B.S., A.B.

Head Nurse on Women's Surgical Ward

Mitchell Junior College, Statesville, N. C., 1934-35; Greensboro College, Greensboro, N. C., 1935-38; Diploma and B.S. in Nursing, Duke University School of Nursing, 1944; *Head Nurse on Women's Surgical Ward, 1944—.*

ANNA LEE HINTON, R.N., B.S.

Head Nurse on Private Surgical Ward

Averett College, Danville, Va., 1938-40; Westhampton College, Richmond, Va., 1940-41; Diploma and B.S. in Nursing, Duke University School of Nursing, 1944; Supervisor of Housekeeping Department, 1944-45; *Head Nurse on Private Surgical Ward, 1945—.*

DOROTHY DEATON DRATZ, R.N.*Head Nurse on Private Medical Ward*

Flora Macdonald College, Red Springs, N. C., 1931-32; Diploma, Duke University School of Nursing, 1941; General Duty, 1941-42; Assistant Head Nurse on Surgical Ward, 1942; Assistant Head Nurse on Men's Medical Ward, 1942-43; Head Nurse in Delivery Room, 1943-44; *Head Nurse on Private Medical Ward, 1944—*.

LOIS FRANCES DIXON, R.N.*Head Nurse on Private Medical Ward*

Diploma, Thompson Memorial Hospital, Lumberton, N. C., 1938; Private Duty, Lumberton, N. C., 1939-42; General Duty, Watts Hospital, Durham, N. C., 1942-43; Assistant Head Nurse on Private Surgical Ward, 1943; *Head Nurse on Private Medical Ward, 1944—*.

ELEANORA TORRENCE, R.N.*Head Nurse on Surgical Pediatric Ward*

Diploma, Knoxville General Hospital, Knoxville, Tenn., 1935; General Duty, Physicians and Surgeons Hospital, Cleveland, Tenn., 1935-36; General Duty, Duke Hospital, Durham, N. C., 1936-41; Assistant Head Nurse, Pediatric Ward, 1941-44; *Head Nurse, Surgical Pediatric Ward, 1944—*.

FACULTY MEMBERS SERVING WITH DUKE UNITMAJOR JULIA ELIZABETH WHITE, *Chief Nurse*

2D LT. NANNIE SUE CHILTON

2D LT. MARY LOUISE LINEBERGER

2D LT. LAUREN HARRIS REARDEN

**MEMBERS OF OTHER FACULTIES OF THE UNIVERSITY
GIVING INSTRUCTION**

WILBURT CORNELL DAVISON, A.B., B.A., B.Sc., M.A., M.D., D.Sc., LL.D., *Dean of the School of Medicine and Professor of Pediatrics.*

A.B., Princeton, 1913; B.A., B.Sc., and M.A., Oxford, 1915, 1916, and 1919; M.D., Johns Hopkins, 1917; D.Sc., Wake Forest, 1932; LL.D., North Carolina, 1944; Int., Radcliffe Infirmary, 1915-1916; Ass't. Res., Assoc. Ped., Acting Pediatrician in Charge, Johns Hopkins Hosp., 1919-1927; Instr., Assoc., Assoc. Prof., Acting Head of Dept. of Ped., and Ass't. Dean, Johns Hopkins Med. Sch., 1919-1927; *Pediatrician, Duke Hospital, 1927—*.

SUSAN COONS DEES, A.B., M.S., M.D., *Associate in Pediatrics.*

A.B., Goucher, 1930; M.D., Johns Hopkins, 1934; M.S., Minnesota, 1938; Int., Johns Hopkins Hosp., 1934-1935, and Ass't. Res. in Med., Strong Mem. Hosp., 1935-1936; Int., in Path., Balto. City Hosps., and Ass't., Johns Hopkins Protein Clinic, 1936-1937; Research Fellow in Ped., Univ. of Minnesota Hosp., 1937-1938; Ass't., Disp. Physician, Johns Hopkins Hosp., 1938-1939; *Assistant Pediatrician, Duke Hospital, 1939—*.

ANGUS MCBRYDE, B.S., M.D., *Assistant Professor of Pediatrics.*

B.S., Davidson, 1924; M.D., Pennsylvania, 1928; Int. and Res. in Ped., Univ. of Pa. Hosp., 1928-1930; Ass't. Res. in Ped., Johns Hopkins Hosp. and Ass't. in Ped., Johns Hopkins Med. Sch., 1930-1931; *Assistant Pediatrician, Duke Hospital, 1931—*.

CHARLOTTE FRISCH WALKER, M.D., *Associate in Neuropsychiatry.*

M.D., Vienna, 1938; Ass't. Neuropsych., Hosp. of Univ. of Vienna, 1936-1938; Ass't. Neurology, Vienna Policlinic, 1938; Ass't. in Res., Dept. of Neuro-Physiol., Yale, 1938-1939; Int. Psych., Conn. State Hosp., 1939-1940; Int., Rotat., Sibley Mem. Hosp., 1940-1941; Ass't. Res., Neuropsychiatry, Duke Hosp., 1941-1942; *1941—*.

HAYWOOD MAURICE TAYLOR, B.S., M.S., Ph.D., *Associate Professor of Biochemistry and Toxicology.*

B.S., M.S., and Ph.D., North Carolina, 1920, 1921, and 1924; Instr. in Chem. and Pharmaceut. Chem., North Carolina, 1920-1925; Research Chemist, E. R. Squibb & Sons, and Fisk Rubber Co., 1925-1928; Instr. in Ophthalmol., and Chemist to Wilmer Institute, Johns Hopkins Hosp., 1928-1930; Visiting Fellow in Forensic Med., New York Univ., 1934; *Associate Biochemist and Toxicologist, Duke Hospital, 1930—*.

JAY MORRIS ARENA, B.S., M.D., *Assistant Professor of Pediatrics.*

B.S., West Virginia, 1930; M.D., Duke, 1932; Int. in Ped., Johns Hopkins Hosp., 1932-1933; Ass't. Res., Res., and *Assistant Pediatrician, Duke Hospital, 1933—.*

BAYARD CARTER, A.B., B.A., M.A., M.D., *Professor of Obstetrics and Gynecology.*

A.B., Delaware, 1920; B.A. and M.A., Oxford, 1923 and 1932; M.D., Johns Hopkins, 1925; Member Obs. and Gyn. Staff of New Haven Hosp. and Yale Med. Sch., 1925-1929; Assoc. Prof. Obs. and Gyn., and Head of Dept., Univ. of Va. Med. Dept., 1929-1931; *Obstetrician and Gynecologist, Duke Hospital, 1931—.*

LENOX DIAL BAKER, M.D., *Associate Professor of Surgery in Charge of Orthopaedics.*

M.D., Duke, 1933; Int. in Orth. Surg. and in Gen'l. Surg.; Ass't. Res. in Orth. Surg., and Res. in Orth., Johns Hopkins Hosp., 1933-1937; Res., Children's Hosp. Sch., 1936; Ass't. and Instr., Orth. Surg., Johns Hopkins Med. Sch., 1935-1937; *Orthopaedist, Duke Hospital, 1937—.*

RICHARD BEVERLY RANEY, A.B., M.D., *Associate in Orthopaedics.*

A.B., North Carolina, 1926; M.D., Harvard, 1930; Int. in Surg., Surg. Pathologist, Ass't. Res. and Assoc. Res. in Surg., Strong Mem. Hcsp., 1930-1934; Res. in Orth. and *Assistant Orthopaedist, Duke Hospital, 1934—.*

WILLIAM BANKS ANDERSON, A.B., M.D., *Associate Professor of Surgery in Charge of Ophthalmology.*

A.B., North Carolina, 1920; M.D., Johns Hopkins, 1924; Int., Union Mem. Hosp., Balto., 1924-1925; Int., Mass. Eye and Ear Infirmary, 1925-1927; *Ophthalmologist, Duke Hospital, 1930—.*

WATT WEEMS EAGLE, A.B., M.D., *Associate Professor of Surgery in Charge of Otolaryngology.*

A.B., North Carolina, 1918; Grad. Stud., North Carolina, 1918-1919; M.D., Johns Hopkins, 1925; Int., Church Home and Infirmary, Baltimore, 1925-1926; Int., Ass't. Res. and Res. in Laryngol., Johns Hopkins Hosp., 1926-1929; Ass't. and Instr. in Laryngol., Johns Hopkins Med. Sch., 1927-1930; *Otolaryngologist, Duke Hospital, 1930—.*

EDWIN PASCAL ALYEA, S.B., M.D., *Clinical Professor of Urology.*

S.B., Princeton, 1919; M.D., Johns Hopkins, 1923; Int. in Med., Int. and Ass't. Res. in Surg.; Ass't. Res. and Res. in Urol., Johns Hopkins Hosp., 1923-1929; Ass't. and Instr. in Surg., and Instr. in Urol., Johns Hopkins Med. Sch., 1925-1930; *Urologist, Duke Hospital, 1930—.*

NORMAN FRANCIS CONANT, B.S., A.M., Ph.D., *Associate Professor of Bacteriology and Mycology.*

B.S., Bates, 1930; A.M. and Ph.D., Harvard, 1931 and 1933; Research Fellow, Laboratoire de Parasitologie, Fac. de Médecine, Paris, 1933-1934; Research Ass't., Harvard Med. Sch. and Mass. Gen'l. Hosp., Jan. 1 to Oct. 1, 1935; 1935—.

ROBERT JAMES REEVES, A.B., M.D., *Clinical Professor of Radiology.*

A.B. and M.D., Baylor, 1920 and 1924; Int., Baylor Hosp., 1924-1925; Res. in Roentgenol., Mass. Gen'l. Hosp., 1925-1926; Ass't. Attending Phys. in Roent. Ray Dept., Presbyterian Hosp., and Med. Center, N. Y., 1926-1930; Instr. in Med., Columbia Med. Sch., 1925-1930; *Radiologist, Duke Hospital, 1930—.*

JASPER LAMAR CALLAWAY, B.S., M.D., *Associate Professor of Medicine in Charge of Dermatology and Syphilology.*

M.D., Duke, 1932; B.S., Alabama, 1935; Ass't. Instr. in Derm. and Syphil., Univ. of Pa. Med. Sch., 1932-1933; Int. and Ass't. Res. in Med., Duke Hosp., 1933-1935; Instr. in Phys. Diag. and Path., Univ. of Alabama, Jan.-July, 1935; Instr. in Derm. and Syphil., Pa. Sch. of Med., 1935-1937; Ass't. Field Physician, U. S. Public Health Serv., Feb.-July, 1937; *Assistant Physician and Dermatologist, Duke Hospital, 1937—.*

FREDERIC M. HANES, A.B., A.M., M.D., D.Sc., *Florence McAlister Professor of Medicine.*

A.B., North Carolina, 1903; A.M., Harvard, 1904; M.D., Johns Hopkins, 1908; D.Sc., Wake Forest, 1943; Int., Johns Hopkins Hosp., 1908-1909; Assoc. Prof. of Path., Columbia, and Pathologist, Presbyterian Hosp., N. Y., 1909-1912; Assoc., Rockefeller Instit., 1912-1913; Assoc. Prof. of Med., Washington Univ. Med. Dept., 1913-1914; Ass't. in Neurol., Queen Square Hosp., London, 1914; Prof. of Therapeutics, Med. Coll. of Va., 1914-1916; Lt. Col. Commanding Base Hosp. 65, A. E. F., 1917-1918; *Physician, Duke Hospital, 1930—.*

WILLIAM McNEAL NICHOLSON, A.B., M.D., *Assistant Professor of Medicine.*

A.B., Duke, 1927; M.D., Johns Hopkins, 1931; Int. in Med., Johns Hopkins Hosp., 1931-32; Ass't. in Path. and in Med., Johns Hopkins Med. Sch., 1932-1935; *Assistant Physician, Duke Hospital, 1935—.*

JAMES PAISLEY HENDRIX, B.S., M.A., M.D., *Associate in Medicine.*

B.S., Davidson, 1925; M.A., Davidson, 1926; M.D., Pennsylvania, 1930; Int., Hosp. of Univ. of Pa., 1930-1932; Res. Fellow in Pharm., Pennsylvania, 1932-1935; Instr. in Pharm., 1935-1938; Part-time Staff Phys., Med. and Gastro-Intestinal Clinics, University Hosp., 1935-1938; *Assistant Physician, Duke Hospital, 1938—.*

EDWARD STEWART ORGAIN, M.D., *Assistant Professor of Medicine.*

M.D., Virginia, 1930; Int., Ass't. Res. and Res. in Med., Univ. Hosp., Cleveland, 1930-1933; Res. Fellow in Med., assigned to Cardiology, Mass. Gen'l. Hosp., 1933-1934; *Assistant Physician, Duke Hospital, 1934—.*

JULIAN MEADE RUFFIN, A.B., M.A., M.D., *Associate Professor of Medicine.*

A.B., M.A., and M.D., Virginia, 1921, 1922, and 1926; Int. and Res., Bellevue Hosp., N. Y., 1926-1928; Instr. in Phys. Diag., George Washington Med. Sch., 1928-1930; *Associate Physician, Duke Hospital, 1930—.*

CHRISTOPHER JOHNSTON, A.B., M.D., *Assistant Professor of Medicine.*

A.B. and M.D., Johns Hopkins, 1922 and 1926; Int. and Ass't. Res. in Med., Johns Hopkins Hosp., 1926-1928; Ass't. in Med., Johns Hopkins Med. Sch., 1927-1928; Ass't. Res. Phys., Hosp. of Rockefeller Instit., N. Y., 1928-1930; *Assistant Physician, Duke Hospital, 1930—.*

ELIJAH EUGENE MENEFEE, JR., B.S., M.D., *Associate in Medicine.*

B.S. and M.D., Duke, 1936; Int., N. Y. State Sanatorium, Raybrook, July 1-Aug. 31, 1936; Int. in Med., Duke Hospital, 1936-1937; Research Fellow in Med. and Bact., Duke Med. Sch., 1937-1938; Res. in Tbc., Bellevue Hosp., New York City, Jan. 1-Dec. 31, 1939; 1940—.

OSCAR CARL EDVARD HANSEN-PRÜSS, A.B., M.D., *Associate Professor of Medicine in Charge of Clinical Microscopy.*

A.B., Universidad Mayor de San Marcos, 1919; Vol. Ass't. in Path., Friedrich Wilhelm Universität, Berlin, 1920-1921; M.D., Johns Hopkins, 1924; Int., Ass't. Res. in Med., and Ass't. Phys., Johns Hopkins Hosp., 1924-1930; Ass't., Instr., and Assoc. in Medicine, Johns Hopkins Med. Sch., 1925-1930; *Associate Physician, Duke Hospital, 1930—.*

DERYL HART, A.B., A.M., M.D., *Professor of Surgery.*

A.B. and A.M., Emory, 1916 and 1917; M.D., Johns Hopkins, 1921; Int. in Surg., Ass't. Res. in Surg. Path., Ass't. Res. and Res. in Surg., and Assoc. Surg., Johns Hopkins Hosp., 1921-1930; Ass't. in Path., Instr., and Assoc. in Surg., Johns Hopkins Med. Sch., 1922-1930; *Surgeon, Duke Hospital, 1930—.*

KEITH SANFORD GRIMSON, B.A., B.S., M.D., *Associate in Surgery.*

B.A. and B.S., North Dakota, 1930 and 1931; M.D., Rush Med. Coll., 1933; Int., Presbyterian Hosp., Chicago, 1933-1935; Ass't. Res., Res., and Instr. in Surg., Chicago, 1935-1942; *Assistant Surgeon, Duke Hospital, 1942—.*

WILEY DAVIS FORBUS, A.B., M.D., *Professor of Pathology.*

A.B., Washington and Lee, 1916; M.D., Johns Hopkins, 1923; Res. and Assoc. Pathologist, Johns Hopkins Hosp., 1926-1927 and 1929-1930; Guest Ass't. Pathol. Inst., Ludwig Maximilian's Univ., Munich, 1928; Pathol., Balto. City Hosps.; Consulting Pathologist, Frederick City Hosp., 1925-1930; Ass't., Instr., and Assoc. in Path., Johns Hopkins Med. Sch., 1923-1930; *Pathologist, Duke Hospital, 1930—.*

DURWARD LEE LOVELL, M.D., *Associate in Surgery.*

M.D., Duke, 1936; Int., Ass't. Res. and Res. in Surg.; *Associate in Surgery, Duke Hospital, 1937—.*

HELEN LOUISE KAISER, R.P.T.T., *Instructor in Physical Therapy, in Charge of Division of Physical Therapy.*

R.P.T.T., Harvard, 1921; Ass't. Instr., Harvard Med. Sch. Course for Graduates, 1:21-1922; Chief Phys. Therap., Detroit Orthop. Clinic, 1922-1925; Cleveland Clinic Found., 1926, and Mt. Sinai Hosp., 1927-1943; *Physical Therapist, Duke Hospital, 1943—.*

GUY LEARY ODOM, M.D., *Associate in Neurosurgery.*

M.D., Tulane, 1933; Int., Rotat., East Louisiana State Hosp., 1934-1937; Res. Fellow, Path. Fellow, Int., and Res. in Neuro. and Neurosurg., Montreal Neurol. Instit., 1937-1942; Clin. Instr. in Neurosurg., L. S. U. Med. Sch., 1942-1943; *Associate Neurosurgeon, Duke Hospital, 1943—.*

MAUDE McCracken, A.B., M.S., *Instructor in Medical Social Service.*

A.B., Duke, 1930; M.S., Simmons, 1941; Ass't. in Med. Soc. Serv. and *Instructor in Medical Social Service, Duke Hospital Social Service Department, 1941—.*

JOSEPH ELDRIDGE MARKEE, B.S., Ph.D., *Professor of Anatomy.*

B.S. and Ph.D., Chicago, 1925 and 1929; Douglas Smith Fellow in Anat., 1929; Instr. in Anat., Chicago, 1929; Research Fell., Gen. Ed. Bd., Carnegie Lab. of Embry., Balto., 1935-1936; Visiting Prof. of Anat., Univ. of Tenn., 1942; Instr., Ass't. Prof., Assoc. Prof. and Prof. of Anat., Stanford, 1929-1943; 1943—.

MAURICE H. GREENHILL, A.B., M.D., *Associate Professor of Neuropsychiatry, Acting Head of the Department.*

A.B., Rochester, 1931; M.D., Chicago, 1936; Int., Los Angeles Co. Gen'l. Hosp., 1936-1937; Psychiatrist, Worcester State Hosp., 1937-1939; Res Psych., Mass. Gen'l. Hosp., 1939-1940; Rockefeller Fellow in Neurol., 1940-1941; Res. Fellow in Neurol., Harvard Med. Sch., 1940-1941; Res. Assoc., Neurological Unit, Boston City Hosp., 1940-1941; Acting Chairman, Dept. of Neuropsychiatry; Psychiatric Consultant, N. C. State Board of Charities and Public Health, Univ. of N. C.; *Associate Neuropsychiatrist, Duke Hospital, 1940—.*

DONALD STOVER MARTIN, A.B., M.D., *Associate Professor of Bacteriology and Associate in Medicine.*

A.B., Johns Hopkins, 1925; M.D., Rochester, 1930; Int. in Ped., Strong Mem. Hosp., 1930-1931; Ass't. in Physiol. and Ass't. in Bact., Rochester Med. Sch., 1926-1927 and 1931-1932; *Associate Bacteriologist, Duke Hospital, 1932—.*

JOHN S. BRADWAY, A.B., A.M., LL.B., *Professor of Law and Director of the Legal Aid Clinic.*

A.B. 1911, A.M. 1915, Haverford College; LL.B. 1914, University of Pennsylvania; general practice, 1914-29; Legal Aid Society of Philadelphia, 1914-20; chief counsel, Philadelphia Legal Aid Bureau, 1920-22; Secretary, National Association of Legal Aid Organizations, 1923-40, President, 1940-42; Visiting Professor of Law and Director of the Legal Aid Clinic, University of Southern California, summer 1928; Professor of Law and Director of the Legal Aid Clinic, University of Southern California, 1929-31; *Professor of Law and Director of the Legal Aid Clinic, Duke University, since 1931.*

MARGARET BLEE, R.N., B.S., M.A., *Associate Professor of Public Health Nursing.*

General Hospital, Pediatrics and Antepartum, Kansas City, Mo., 1923-26; Visiting Nurse Association, Antepartum Service and Community, Kansas City, Mo., 1926-29; Family Case Worker, Provident Association, Kansas City, Mo., 1931-33; County Nurse, Santa Fe County, New Mexico, Generalized Service, 1929-31; Educational Director, Visiting Nurse Association, Denver, Colo., 1933-37; Instructor in Public Health Nursing and Supervisor of Field Program, University of California, Berkeley, Calif., 1937-40; Assistant to Guest Instructor, University of California, Summer Session, 1940; *Associate Professor of Public Health Nursing, University of North Carolina, Chapel Hill, N. C., 1941—.*

W. S. PERSONS, A.B., *Instructor in Physical Education.*

THE SCHOOL OF NURSING

GENERAL INFORMATION

The School of Nursing of Duke University was established in 1925 in connection with the School of Medicine of the University and Duke Hospital through the munificent gift of the late James B. Duke.

The plan of the School is to develop the ability of the nurse to make a maximum contribution to social welfare and progress, and to live an individually satisfying life, through the medium of the service which she renders to individuals, families, and communities in caring for the sick, in prevention of disease, and in conservation of health.

The government of the School is administered by the Curriculum Committee of the School of Nursing, under the general direction of the Executive Committee of the Schools of Nursing and Medicine.

FACILITIES OF THE HOSPITAL

Duke Hospital has every modern convenience for the diagnosis, proper care, welfare, and comfort of patients, both private and charity, white and colored, whether they come from Durham or from a distance. It has 604 beds, including 50 bassinets for newly born infants. *Medicine*, including dermatology and neurology, has 75 ward beds; *surgery*, including urology, otolaryngology, ophthalmology, and orthopaedics, 143 ward beds; *obstetrics*, including *gynecology*, 56, and 50 bassinets; *neuropsychiatry*, 23; and *pediatrics*, 52. There are 205 private rooms and semiprivate cubicles, 7 air-conditioned operating rooms, and 4 obstetric delivery rooms. Offices and examining rooms for the members of the Medical Faculty are located in the Hospital. The Hospital has been approved for internships and residencies by the Council on Medical Education and Hospitals of the American Medical Association.

Through the generosity of Dr. Robert S. Carroll, the Highland Hospital, Asheville, North Carolina, has been presented to the University to form a therapeutic division of the Department of Psychiatry. Dr. Carroll will continue as Director of Highland Hospital. The School of Nursing at Highland Hospital offers training for those who wish to prepare themselves for psychiatric nursing. Those interested should apply to Dr. Robert S. Carroll, Highland Hospital, Asheville, North Carolina.

FACILITIES FOR INSTRUCTION

The facilities for instruction include the undergraduate colleges and graduate schools of the University, the School of Medicine, and Duke Hospital.

LIBRARIES

The reference library of books and periodicals of special interest to students majoring in nursing is located in the Nurses' Home Libraries. Students may use the general libraries on the East and West campuses and the Medical School Library.

RESIDENCIES

Students are housed in the fireproof residencies located near the Hospital. Rooms are adequately equipped with blankets and linen, making further provision by the student unnecessary.

HEALTH REGULATIONS AND PHYSICAL EDUCATION

The School has general supervision of the student's health. All physical defects, such as defective vision, dental needs, etc., must be corrected before admission to the School. The student must have been immunized against typhoid fever and vaccinated against smallpox during the current year. All students are required to pass a physical examination before admission to the School of Nursing and at intervals thereafter, a final examination being given at the end of the course. Students whose condition needs further observation may be admitted tentatively, but must cancel their applications if later findings prove them physically unfit for nursing. Students about whom it is decided that tonsillectomy or other surgery was indicated before admission to the School, or students under care of a private physician for some minor complaint which does not interfere with the practice of nursing but requires continued treatment, may be asked to pay for this care at the hands of the physician or surgeon of their choice.

Students are allowed two weeks sick leave during the three-year course.

ACTIVITIES OFFERED

Autumn Quarter (October to December): Swimming, horseback riding. (Required for first year students.)

REQUIREMENTS FOR ADMISSION AND SELECTION OF MATRICULANTS

As the profession of nursing requires women with high sense of integrity and responsibility, with culture and intelligence whose predominant interest is in service to the public, the Admissions Committee of the School considers carefully all credentials of applicants before selection of matriculants is made.

All applications for admission to the School should be made to the Director of the School of Nursing, who will furnish upon request the necessary forms which must be filed with the School before decision is made regarding the acceptability of the candidate.

A personal interview is required either at the school by appointment with a member of the faculty or with an alumna living in the vicinity of the applicant, for which arrangements will be made.

Applicants should be between eighteen and thirty years of age. Because of the need for large numbers of well-qualified nurses due to the war, exceptions to this general policy may be made. Young women who are $17\frac{1}{2}$ years of age may be considered for admission if they show maturity and submit other credentials which would indicate superior qualifications for nursing. Exceptions for those over thirty may be made also, if the candidate shows unusual abilities.

Applicants must submit evidence of personal suitability for nursing in

relation to their physical health, emotional stability and general qualities of personality, culture and maturity.

Emphasis in selection of matriculants is placed upon the educational and scholastic qualifications of applicants. The minimum requirement is satisfactory graduation from an accredited high school or recognized preparatory school in which the following units of study have been taken:

English (4 years)	4 units
Foreign Language	2 units
Chemistry	1 unit
Biology, Physics or General Science	1 unit
History	1 unit
Mathematics	2 units
Electives	5 units
	<hr/>
	16 units

In addition, at least one semester of college chemistry and biology or zoology are required.

Preference in admission, however, is given to women who have had the opportunity of advanced study and experience, provided they meet all other requirements satisfactorily. As a result of this selective process, many students have received their bachelor's degree before admission to the School of Nursing and most of them have had one or more years' study beyond high school. Many have had valuable experiences as teachers, librarians, social workers and secretaries.

Because of the many applications to the School, it is important that those who desire admission submit their credentials promptly to

The Director of the School of Nursing,
Duke University School of Nursing,
Durham, N. C.

Duke University School of Nursing participates in the U. S. Nurse Cadet Corps program. Under this plan, students who pledge themselves to continuing in nursing throughout the war, receive indoor and outdoor uniforms and a small monthly stipend. If a student enrolls on the first month of either her first, second, or third year in the School, she is eligible also for tuition without cost. Classes are admitted in October of each year.

REQUIREMENTS FOR THE B.S. IN NURSING

Upon completion of 60 semester hours of acceptable college work with an average of at least "C," a student is eligible for the B.S. in Nursing. Part of this academic requirement may be completed after the nursing course, if so desired.

ADVANCED STANDING

As another means of meeting war needs the School offers exemption of three to six months to graduates of accredited colleges who maintain

a "C" rating and show superior ability in nursing in the first two years in the School of Nursing.

REQUIREMENTS OF SCHOLARSHIP FOR PROMOTION AND GRADUATION

Students are graded in their studies, which include all classes and nursing practice, on a basis of weighted quality points with an average of two quality points required for promotion without condition and for graduation. A diploma of the School is issued upon satisfactory completion of all requirements.

The following grading system has been established:

93-100—"A"—Superior	3 quality points
85-92—"B"—Above Average	2 quality points
75-84—"C"—Satisfactory	1 quality point
75-75—"D"—Re-exam	0 quality point
Below 70—"F"—Unsatisfactory (Failure)	-1 quality point
"I"—Incomplete, given in case of absence and not because of poor scholarship.	

The scholastic standing of the student is based upon the general character of her nursing practice as well as the results of written and oral examinations, case studies, and practical tests. Reports of nursing practice are recorded regularly by the departments. Students who have an average of 90 on Theory and Practice are placed on the Dean's List.

A major warning is given to a student if her work is not of at least a satisfactory quality or "C" rating, which is required for promotion without condition.

A grade of at least "C" is required in Nursing Arts I and II. A grade of "D" in nursing practice in any major field of nursing places a student on major warning.

In case a student fails in one or not more than two subjects, she may be allowed to repeat these courses provided her record in other work is sufficiently satisfactory. A charge of \$1.00 is made for each repeat examination. If it is necessary to repeat a course, a charge of \$5.00 will be made; if a student should require special tutoring there will be a charge not to exceed \$1.00 an hour. In order to readjust her schedule to meet such difficulties, it may be necessary to increase the length of her course.

After graduation one transcript of the School record will be granted each nurse upon request without charge. Additional copies will be sent upon payment of a fee of \$1.00. Transcripts will not be issued except upon personal request of the graduate.

FEES

A yearly tuition fee of \$100 is required: (a fee of \$100 is charged for the Pre-Nursing course) the first year \$25 upon acceptance by the School, \$25 upon registration, and \$50 on September 29, 1945; the second and third years, \$50 twice yearly. Twenty-five dollars will be refunded to students who leave the School within one month of registration. There is no charge for room, board, laundry, and uniforms. Estimated additional expenses for the first year, including textbooks, are \$30; for the second, \$15; and for the third, \$15. There is a room key deposit of \$1.00; a publications fee of \$5.00; a fee of \$4.50 before ad-

mission for pre-entrance tests; \$5.00 for diploma; \$5.00 for degree; \$5.00 Commencement Fee; a cap and gown rental fee of \$1.25 payable on May 1, graduating year.

LOAN FUND AND SCHOLARSHIP

Through the generosity of the Kellogg Foundation, loan funds sufficient to cover tuition costs are available to students who demonstrate a real need and who are qualified. There are also a limited number of tuition scholarships for exceptionally qualified students.

READMISSION

Students who are absent for more than one month on account of illness or have leave of absence may be readmitted to the same or a succeeding class at the discretion of the Committee.

VACATIONS

Each year is divided into four quarters of three months each. First-year students have vacations of two weeks at Christmas and two weeks during the summer. Senior students have vacations of two weeks; Junior students, a month.

LEAVE OF ABSENCE

Students are not expected to leave the School because of family or other personal reasons. Absence from the School is granted only in extreme cases. If a student is obliged to be away for a period exceeding four weeks, the Dean of the School of Nursing will determine the date of her return and the question of resuming her place in her original class.

THE DUKE UNIVERSITY SCHOOL OF NURSING ALUMNAE ASSOCIATION

The Duke University School of Nursing Alumnae Association was formed for the purpose of rendering mutual help and improvement in professional work, and for the promotion of good fellowship among the graduates of the School.

The Alumnae Association co-operates with the North Carolina State Nurses' Association and the American Nurses' Association in working for the professional and educational advancement of nursing.

An endowment fund has been established by the Association. Each alumna is asked to contribute \$10 to this fund within two years following her graduation. Gifts from interested friends have also helped to increase the fund during the past year.

Alumnae Notes, the Association's publication, has become a quarterly bulletin.

COURSES OF INSTRUCTION

Anatomy and Physiology.—Basic facts and principles concerning the structure and activities of the human body, and their application to nursing situations in health and disease. Demonstrations, laboratory work, and discussions. Anatomy Department of Medical School.

DR. MARKEE, DR. HOLLINSHEAD, MISS POOLE

Bacteriology.—The relation of pathologic organisms to the cause, prevention, spread, and control of communicable diseases. Lectures and laboratory work.

DR. CONANT

Chemistry.—Emphasis on the physiological and pathological aspects of chemistry as applied to nursing. Lectures are supplemented by laboratory experiments and discussions of general, organic, and physiological chemistry.

DR. TAYLOR, MRS. ATWELL

Diet Therapy.—Principles underlying nutrition in health and disease.

MRS. ELSIE MARTIN

First Aid.—Presentation of the general factors essential in meeting emergency needs.

RED CROSS INSTRUCTOR

Gynecology.—Presentation of the anatomy and physiology of the female reproductive organs with reference to the major diseases and abnormalities of the organs. Essential nursing care is stressed.

DR. BAYARD CARTER, ASSOCIATES, MRS. RUTH WILSON

History of Nursing.—Survey of the development and trends leading up to the present concept of nursing, stressing the historical element in the profession and present organizations.

MRS. ATWELL

Medical Nursing I.—The study of basic medical conditions and related nursing care.

PHYSICIAN LECTURERS, MISS BRYANT

Medical Nursing II and III.—Advanced medical conditions inclusive of Dermatology, Communicable Disease and Syphilology with emphasis on nursing aspects.

PHYSICIAN LECTURERS, MISS BRYANT

Surgery I.—Introduction to general Surgery and Pathology, correlating Surgical Nursing with related conditions.

PHYSICIAN LECTURERS, MRS. HAMPTON

Surgery II.—The study of diseased conditions common to Otolaryngology, Dentistry and Urology, with emphasis on specialized nursing care.

PHYSICIAN LECTURERS, MRS. HAMPTON

Surgery III.—The presentation of modern trends in Ophthalmology and Orthopedics including nursing care common to these specialties.

PHYSICIAN LECTURERS, MRS. HAMPTON

Nutrition and Cookery.—An introduction to the principles and methods of the preparation of foods.

MRS. ELSIE MARTIN

Nursing Arts I.—Introduction to nursing and hospital economics inclusive of introductory Professional Adjustments and Health Education. This course aims to develop in a high degree professional atmosphere and dignity, with well-rounded physical and mental health.

MISS PINKERTON, MISS BURNHAM, ASSISTANTS

Nursing Arts II.—Principles of nursing procedures, including bandaging and some of the hospital routines with supervision in classroom and the wards.

MISS BURNHAM, ASSISTANTS

Nursing Arts III.—Demonstrations and practices in the classroom of advanced nursing procedures with supervised experience on the wards.

MISS BURNHAM, ASSISTANTS

Obstetrics.—A course dealing with the physiology of normal pregnancy, labor, and puerperium; the more common abnormalities; and the care of the newborn. Principles of obstetrical nursing care are emphasized. Lectures and demonstrations.

DR. BAYARD CARTER, MRS. RUTH WILSON, MISS HORTON

Operating Room Technique and Anesthesia.—Lectures and demonstrations stressing the physical operating room plant in its relation to preparation and sterilization of supplies and use of equipment in operative procedures, and the relation of anesthesia with these set-ups.

MISS M. BATCHELDER, DR. MARTIN

Pediatrics.—Emphasis on the causes, treatments, and preventive measures in childhood diseases. The importance of nursing care is stressed.

PHYSICIAN LECTURERS, MISS M. SHERWOOD

Elementary Pharmacology.—A study of the nurses' responsibilities in the understanding of the preparation and computation of dosages, and common modes of administration of drugs.

MISS POOLE

Pharmacology.—An introduction to drugs in relation to their use in the treatment of disease, with emphasis on the responsibility of the nurse in their administration.

MISS POOLE

Posture.—A course given for nurses stressing the correct body positions in normal living and nursing procedures.

MISS KAISER

Physical Therapy.—Introducing the uses of the physical elements in the treatment of disease.

MISS KAISER

Professional Adjustments II.—A survey of the nursing field with consideration of the special qualifications and preparation needed for various specialties; inclusive of a study for successful management of a hospital unit.

MISS PINKERTON AND SPECIALISTS

Psychiatric Nursing.—An introduction to causes, treatments, and nursing care measures used in the care of the mentally ill. Lectures, presentation of cases, demonstrations of procedures, lantern slides.

DR. CARROLL, MRS. RIDDLEBERGER

Psychology.—Fundamental principles underlying human conduct.

MRS. RIDDLEBERGER

Introduction to Public Health Nursing.—These lectures are designed to give an over-all view of the field of public health with pertinent relations to public health nursing, its development, influence, the present-day programs, and family health work.

MISS R. HAY, MISS M. BLEE

Sociology of Nursing.—Sociological factors in the problems of individuals as related to the hospital and the community life from a medical-social aspect.

MRS. RIDDLEBERGER, MISS MCCracken

Clinical Experience After the First
Six Months

Medical Wards	5½	months
Surgical Wards	5½	months
Diet Kitchen	1	month
Gynecological Wards	1	month
Operating Department	2	months
Out-Patient Department	1	month
Private Wards	2	months
Obstetric Department	3	months
Pediatrics Department	3	months
Milk Laboratory	¼	month
Psychiatry	1	month
Electives	1	month
Unassigned	1	month
<i>Total</i>	<u>27¼</u>	months

SCHOOL OF NURSING STUDENTS

FINISHING SENIOR STUDENTS

<i>Name and Preparation</i>	<i>Home Address</i>
Adams, Barbara Fay..... <i>Winthrop College.</i>	Leland, N. C.
Banks, Katherine M..... <i>Duke University.</i>	Hickory, N. C.
Barbrey, Betty Jane..... <i>Pfeiffer Junior College.</i>	Mount Olive, N. C.
Bennett, Virginia Rose..... <i>West Virginia University.</i>	Weston, W. Va.
Bond, Sarah Roberts..... <i>Georgia State College for Women.</i>	Augusta, Ga.
Boring, Dorothy Louise..... <i>Florida State College.</i>	Plant City, Fla.
Braswell, Ruth Davis..... <i>Louisburg College.</i>	Princeton, N. C.
Broadhurst, Jane..... <i>Woman's College, University of North Carolina.</i>	Goldsboro, N. C.
Byrd, Frances Levenia..... <i>Averett College.</i>	Leaksville, N. C.
Byrd, Mary Jane..... <i>Brevard College.</i>	Candler, N. C.
Caviness, Edith Ann..... <i>Peace College.</i>	Lillington, N. C.
Chalker, Mary C..... <i>Florida State College for Women.</i>	West Palm Beach, Fla.
Colley, Myrle..... <i>Louisburg College.</i>	Wilmington, N. C.
Cothran, Jane..... <i>Winthrop College.</i>	Inman, S. C.
Covington, Martha Lee..... <i>Mitchell College.</i>	Mebane, N. C.
Davis, Martha Jane..... <i>Mars Hill College.</i>	Andrews, N. C.
Davis, Pauline..... <i>Madison College.</i>	Nashville, N. C.
Davis, Ruth..... <i>Presbyterian College.</i>	Clinton, S. C.
Davis, Virginia Helen..... <i>West Virginia University.</i>	Uniontown, Pa.
Denny, Janice..... <i>Biltmore College.</i>	Asheville, N. C.
Durner, Hazel Ruth..... <i>Duke University.</i>	Waterbury, Conn.
Fisher, Mary Alice..... <i>University of Georgia.</i>	Clayton, Ga.
Freeman, M. Trudell..... <i>Pfeiffer College.</i>	Ether, N. C.

<i>Name and Preparation</i>	<i>Home Address</i>
Givin, Nelle Brown..... <i>University of Alabama.</i>	Charleston, W. Va.
Gossett, Mary Frances..... <i>Winthrop College.</i>	Stephen, S. C.
Gray, Virginia..... <i>Duke University.</i>	Oyster Bay, N. Y.
Hanna, Mary Chapman..... <i>Winthrop College.</i>	Blacksburg, S. C.
Harlow, Gene Anne..... <i>Florida State College for Women.</i>	Jacksonville, Fla.
Hawes, Ruth Mae..... <i>Florida State College for Women.</i>	Tallahassee, Fla.
Hege, Margaret Elizabeth..... <i>Duke University.</i>	Winston-Salem, N. C.
Kaiser, Edith..... <i>Newberry College.</i>	Lexington, S. C.
Kime, Selena..... <i>Lenoir-Rhyne College.</i>	Liberty, N. C.
Kirby, Mary Katherine..... <i>Asheville College.</i>	Newry, S. C.
Knowles, Lois Nina..... <i>Florida State College for Women.</i>	Valrico, Fla.
Lawrence, Elizabeth..... <i>Duke University.</i>	Swedesboro, N. J.
McElroy, Barbara Anne..... <i>Grove City College.</i>	Latrobe, Pa.
McIntyre, Jean C..... <i>Limestone College.</i>	Marion, S. C.
Mitchell, Paula Mozelle..... <i>University of Alabama.</i>	Cullman, Ala.
Morrow, Nancy Anne..... <i>William and Mary College.</i>	Shaker Heights, Ohio
Nash, Doris..... <i>Temple University.</i>	Troy, Pa.
Nix, Jean D..... <i>Winthrop College.</i>	Garnett, S. C.
Refogal, Jacquelyn..... <i>Mary Washington College.</i>	Clearwater, Fla.
Rhoad, Betty Claire..... <i>Winthrop College.</i>	Moncks Corner, S. C.
Riddle, Betty Louise..... <i>Elon College.</i>	Graham, N. C.
Robeson, Jeanne..... <i>Flora Macdonald College.</i>	Tarheel, N. C.
Robinette, Helen M..... <i>Campbell College.</i>	Winston-Salem, N. C.
Robinson, Mary Jean..... <i>Ohio University.</i>	Clarksburg, W. Va.
Rowland, Alice Bird..... <i>University of Pennsylvania.</i>	Johnstown, Pa.
Sawyer, Mary Harriet..... <i>Woman's College, University of North Carolina.</i>	Charlotte, N. C.
Smith, Adella May..... <i>Woman's College, University of North Carolina.</i>	Clinton, N. C.
Smith, Annie Ruth..... <i>Winthrop College.</i>	Albemarle, N. C.

<i>Name and Preparation</i>	<i>Home Address</i>
Smith, Emily June..... <i>State Teachers College.</i>	Odd, Va.
Solomon, Hazel..... <i>Woman's College, University of North Carolina.</i>	Charlotte, N. C.
Stewart, Katherine..... <i>Campbell College.</i>	Lillington, N. C.
Stiglitz, Adelaide..... <i>Madison College.</i>	Plainfield, N. J.
Styron, Myrtle Frances..... <i>Woman's College, University of North Carolina.</i>	Goldsboro, N. C.
Taylor, Virginia Louise..... <i>St. Mary's School.</i>	Boone, N. C.
Vaughan, Louise..... <i>Peace College.</i>	Rich Square, N. C.
Wahmann, Nancy..... <i>Duke University.</i>	Moultrie, Ga.
Watkins, Martha Elizabeth..... <i>Lenoir-Rhyne College.</i>	Valdese, N. C.
White, Betty Evelyn..... <i>Elon College.</i>	Bynum, N. C.
Willcox, Mary Moore..... <i>Winthrop College.</i>	Marion, S. C.
Wylie, Ruth Laura..... <i>West Virginia University.</i>	Alloy, W. Va.
Yoak, Betty Jo..... <i>Marshall College.</i>	Ceredo, W. Va.

SENIOR STUDENTS

Alley, Mary Lee..... <i>Montreat College; Woman's College, University of North Carolina.</i>	Greensboro, N. C.
Baker, Alfreda..... <i>Elon College.</i>	Carthage, N. C.
Bason, Betty Greene..... <i>Brevard Junior College.</i>	Graham, N. C.
Bates, Mary Elizabeth..... <i>Woman's College, University of North Carolina.</i>	Winston-Salem, N. C.
Brevoort, Esther Ruth..... <i>Mary Washington College; Duke University.</i>	Hampton, Va.
Cannady, Edythe Ethel..... <i>Abraham Baldwin College; Georgia State Woman's College.</i>	Panama City, Fla.
Carver, Clara..... <i>Western Carolina Teachers College.</i>	Canton, N. C.
Conrad, Phoebe Elizabeth..... <i>Edinboro State Teachers College.</i>	New York, N. Y.
Cooke, Edith Celestia..... <i>Duke University.</i>	Durham, N. C.
Curry, Johnsie Stowe..... <i>Woman's College, University of North Carolina; High Point College.</i>	Kannapolis, N. C.
DeLong, Sara Louise..... <i>Catawba College.</i>	Reading, Pa.
Dermid, Emma Olive..... <i>Woman's College, University of North Carolina.</i>	Hendersonville, N. C.

<i>Name and Preparation</i>	<i>Home Address</i>
Dettmar, Frances Aileen..... <i>Brevard College.</i>	Kings Mountain, N. C.
Ensign, Carol Joy..... <i>University of Florida; Florida State College for Women.</i>	Gainesville, Fla.
Gambrell, Vivian E..... <i>Catawba College.</i>	Lexington, N. C.
Glen, Cecilia W..... <i>Duke University.</i>	Edisto Island, S. C.
Grant, Margaret Turner..... <i>Catawba College; Peace Junior College.</i>	Mocksville, N. C.
Jones, May Craigge..... <i>Georgetown College.</i>	Boca Grande, Fla.
King, Martha Grey..... <i>Eastern Carolina Teachers College.</i>	Louisburg, N. C.
Laws, Cicily Anne..... <i>Mars Hill College.</i>	Brantwood, Md.
Leach, Martha..... <i>Georgia State College for Women.</i>	Hamlet, N. C.
Lepper, Mary Ellen..... <i>Duke University.</i>	Hastings-on-Hudson, N. Y.
Lineberry, Nancy Eleanor..... <i>Peace Junior College.</i>	Raleigh, N. C.
Luna, Patricia Ardelia..... <i>Berea College.</i>	McMinnville, Tenn.
Miller, Margaret..... <i>Woman's College, University of North Carolina; Queen's College.</i>	Aberdeen, N. C.
Miller, Mary Sue..... <i>Florida Southern College.</i>	Lakeland, Fla.
O'Rear, Jean Fray..... <i>Kansas City Junior College.</i>	Evansville, Ind.
Owens, Faith..... <i>Winthrop College.</i>	Charlotte, N. C.
Ransom, Audrey Mae..... <i>Mary Washington College.</i>	Longmeadow, Mass.
Reynolds, Elizabeth Hines..... <i>Woman's College, University of North Carolina.</i>	Rockingham, N. C.
Sharp, Louise Wortham..... <i>Woman's College, University of North Carolina.</i>	Reidsville, N. C.
Smith, Lucy Fay..... <i>Salem College.</i>	Kernersville, N. C.
Talley, Patricia Ann..... <i>Furman University.</i>	Greenville, S. C.
Taylor, Helen E..... <i>Florida State College for Women.</i>	Miami, Fla.
Thorpe, Annie Louise..... <i>Winthrop College.</i>	Hardeeville, S. C.
Trawick, Betty Jean..... <i>Shorter College.</i>	Sparta, Ga.
Vannah, Mary..... <i>University of Tennessee.</i>	Brevard, N. C.
Whitfield, Mae Joyce..... <i>Duke University.</i>	Durham, N. C.

<i>Name and Preparation</i>	<i>Home Address</i>
Williard, Ruth Boaz..... <i>Woman's College, University of North Carolina.</i>	High Point, N. C.
Wirt, Julia B..... <i>Catawba College.</i>	Camp Hill, Pa.

JUNIOR STUDENTS

Alexander, Henry Quincy..... <i>Mitchell College.</i>	Pineville, N. C.
Althausen, Ben Eva..... <i>Pre-Nursing Course, Duke University.</i>	Fort Lauderdale, Fla.
Armbrister, Elizabeth A..... <i>Pre-Nursing Course, Duke University.</i>	Bluefield, W. Va.
Beasley, Eleanor..... <i>Louisburg College; Brevard College.</i>	Louisburg, N. C.
Berry, Jean Mills..... <i>Pre-Nursing Course, Duke University.</i>	Durham, N. C.
Blackwell, Isabel..... <i>Limestone College.</i>	Marion, S. C.
Bowden, Mary Ellen..... <i>Mercer University; Pre-Nursing Course, Duke University.</i>	Fitzgerald, Ga.
Brisson, Mittie Jean..... <i>Mars Hill Junior College; Pre-Nursing Course, Duke University.</i>	Lumberton, N. C.
Caldwell, Reva Fern..... <i>N. E. Missouri State Teachers College; Pre-Nursing Course, Duke University.</i>	Washington, D. C.
Campbell, Barbara Ann..... <i>Pre-Nursing Course, Duke University.</i>	Gainesville, Fla.
Champion, Elizabeth L..... <i>Pre-Nursing Course, Duke University.</i>	Kannapolis, N. C.
Clegg, Elizabeth..... <i>Duke University.</i>	Durham, N. C.
Edens, Doris A..... <i>Appalachian State Teachers College; Pre-Nursing Course, Duke University.</i>	Rowland, N. C.
Fleming, Ilah..... <i>University of Florida; Florida State College for Women.</i>	Gainesville, Fla.
Garrett, Emily L..... <i>Winthrop College; Pre-Nursing Course, Duke University.</i>	Lancaster, S. C.
Gibson, Patricia Ann..... <i>Farmville State Teachers College.</i>	Hampton, Va.
Giles, Dorothy Nell..... <i>Pre-Nursing Course, Duke University.</i>	Huntsville, Ala.
Goff, Mary Jean..... <i>La Crosse State Teachers College.</i>	Fort Benning, Ga.
Goforth, Ellen..... <i>Mars Hill College.</i>	Rutherfordton, N. C.
Haigh, Joanne..... <i>Florida State College for Women; Pre-Nursing Course, Duke University.</i>	Daytona Beach, Fla.
Harris, Margaret Ray..... <i>Pre-Nursing Course, Duke University.</i>	Durham, N. C.

<i>Name and Preparation</i>	<i>Home Address</i>
Harrison, Betty Jo..... <i>Georgetown College.</i>	Georgetown, Ky.
Johnson, Betsy Ross..... <i>Pre-Nursing Course, Duke University.</i>	Clayton, N. C.
Johnson, Joyce Faye..... <i>Pre-Nursing Course, Duke University.</i>	Fayetteville, N. C.
King, Margaret A..... <i>Pfeiffer Junior College; Pre-Nursing Course, Duke University.</i>	Pleasant Garden, N. C.
Lane, Jacqueline A..... <i>Barnard College; Pre-Nursing Course, Duke University.</i>	Flat Rock, N. C.
Logan, Georgia Bryan..... <i>University of North Carolina.</i>	Chapel Hill, N. C.
Lott, Virginia E..... <i>Winthrop College.</i>	Aiken, S. C.
Lovette, Virginia..... <i>Pre-Nursing Course, Duke University.</i>	Wilkesboro, N. C.
Lucas, Maude Lee..... <i>University of North Carolina; Pre-Nursing Course, Duke University.</i>	Hillsboro, N. C.
McKeever, Shirley Ann..... <i>Pre-Nursing Course, Duke University.</i>	Washington, D. C.
McLendon, Anna Madge..... <i>Furman University.</i>	Greenville, S. C.
Majette, Helen Jones..... <i>Mary Washington College; Pre-Nursing Course, Duke University.</i>	Franklin, Va.
Marston, Peggy Lee..... <i>Madison College.</i>	Edinburg, Va.
Michie, Jacqueline A..... <i>Pre-Nursing Course, Duke University.</i>	Durham, N. C.
Morgan, Evelyn Davis..... <i>Catawba College.</i>	Salisbury, N. C.
Nicholson, Dorothy J..... <i>Winthrop College; Pre-Nursing Course, Duke University.</i>	Converse, S. C.
Otken, Mary Frances..... <i>Pre-Nursing Course, Duke University.</i>	Greenwood, Miss.
Peterson, Barbara Elizabeth..... <i>Pre-Nursing Course, Duke University.</i>	Ann Arbor, Mich.
Pike, Rubilee..... <i>University of South Carolina; Pre-Nursing Course, Duke University.</i>	Columbia, S. C.
Pritchett, Sarah Scott..... <i>Winthrop College.</i>	Olanta, S. C.
Roller, Jean..... <i>State Teachers College; Pre-Nursing Course, Duke University.</i>	Roanoke, Va.
Routledge, Sarah Elizabeth..... <i>Alabama Polytechnic Institute; Pre-Nursing Course, Duke University.</i>	Rome, Ga.
Rudisill, Bertha..... <i>Pre-Nursing Course, Duke University.</i>	Roxbury, Va.
Seay, Margaret..... <i>Florida State College for Women.</i>	Waldo, Fla.

<i>Name and Preparation</i>	<i>Home Address</i>
Short, Zelda Marie..... <i>Bluefield College;</i> <i>Pre-Nursing Course, Duke University.</i>	Bluefield, W. Va.
Smith, Edith E..... <i>Franklin College of Indiana;</i> <i>Pre-Nursing Course, Duke University.</i>	Louisville, Ky.
Smith, Margaret Louise..... <i>Pre-Nursing Course, Duke University.</i>	Fremont, N. C.
Snyder, Cora Crawford..... <i>Duke University;</i> <i>Pre-Nursing Course, Duke University.</i>	Shepherdstown, W. Va.
Strother, Wincey Irene..... <i>High Point College.</i>	High Point, N. C.
Swartz, Betty Jane..... <i>York Junior College.</i>	York, Pa.
Talley, Rebecca Jane..... <i>Mars Hill College;</i> <i>Pre-Nursing Course, Duke University.</i>	Fuquay Springs, N. C.
Thomas, Wilma Anne..... <i>Appalachian State Teachers College.</i>	York, S. C.
Walker, Mary Clair..... <i>Woman's College, University of North Carolina;</i> <i>Pre-Nursing Course, Duke University.</i>	Winston-Salem, N. C.
Welsh, Sarah Ruth..... <i>Pre-Nursing Course, Duke University.</i>	Lumberton, N. C.
Westman, Dorothy..... <i>Pre-Nursing Course, Duke University.</i>	Buffalo, N. Y.
Williams, Mary Elizabeth..... <i>Woman's College, University of North Carolina.</i>	New Bern, N. C.

FRESHMAN STUDENTS

Apple, Winnie Marie..... <i>Pre-Nursing Course, Duke University.</i>	Reidsville, N. C.
Armstrong, Ora Pauline..... <i>Pre-Nursing Course, Duke University.</i>	Tarboro, N. C.
Bailey, Lucille Watson..... <i>Pre-Nursing Course, Duke University.</i>	Washington, D. C.
Batten, Betty Joe..... <i>West Virginia University.</i>	Welch, W. Va.
Best, Flora Louise..... <i>The Woman's College, Duke University.</i>	Milton, Pa.
Bingham, Ruby Jewel..... <i>Pre-Nursing Course, Duke University.</i>	Meadowview, Va.
Bishop, Martha Louise..... <i>University of Alabama.</i>	Henagar, Ala.
Bispham, Betty Ann..... <i>Pre-Nursing Course, Duke University.</i>	Bradenton, Fla.
Blaylock, Doris Eileen..... <i>Pre-Nursing Course, Duke University.</i>	Charleston, S. C.
Braddock, Nina Marie..... <i>Pre-Nursing Course, Duke University.</i>	Winston-Salem, N. C.
Bradsher, Frances Elizabeth..... <i>Catawba College.</i>	Salisbury, N. C.
Boesel, Pauline Ruth..... <i>Sullins College;</i> <i>Pre-Nursing Course, Duke University.</i>	Niles, Ohio

<i>Name and Preparation</i>	<i>Home Address</i>
Boring, Barbara Adair..... <i>Florida State College for Women.</i>	Wildwood, Fla.
Bouton, Joanne..... <i>Pre-Nursing Course, Duke University.</i>	Smethport, Pa.
Boynton, Sarah Ross..... <i>Florida State College for Women.</i>	Havana, Fla.
Brabham, Ann Mildred..... <i>Winthrop College; Pre-Nursing Course, Duke University.</i>	Winnsboro, S. C.
Bufkin, Mattee Bullard..... <i>Mississippi State College for Women; Pre-Nursing Course, Duke University.</i>	Leland, Miss.
Bundy, Jeanne Petteway..... <i>Pre-Nursing Course, Duke University.</i>	Greenville, N. C.
Burrow, Betty Belle..... <i>Pre-Nursing Course, Duke University.</i>	Bristol, Tenn.
Christoph, Carolyn Edith..... <i>George Washington University; Pre-Nursing Course, Duke University.</i>	Washington, D. C.
Cline, Mary Laura..... <i>Woman's College, University of North Carolina; Pre-Nursing Course, Duke University.</i>	Concord, N. C.
Compton, Anna Belle..... <i>George Washington University.</i>	Arlington, Va.
Conder, Elizabeth Mason..... <i>Winthrop College.</i>	Columbia, S. C.
Conroy, Patricia Ann..... <i>Pre-Nursing Course, Duke University.</i>	Ozone Park, N. Y.
Cooke, Mary Alice..... <i>Appalachian State Teachers College.</i>	Elizabethton, Tenn.
Cox, Frances Jean..... <i>Pre-Nursing Course, Duke University.</i>	West End, N. C.
Craig, Eleanor..... <i>The Woman's College, Duke University.</i>	Jacksonville, Fla.
Crovatt, Dorothy Belle..... <i>Pre-Nursing Course, Duke University.</i>	Jacksonville, Fla.
Dalton, Eva Virginia..... <i>Pre-Nursing Course, Duke University.</i>	Tampa, Fla.
Daves, Annie Frances..... <i>Montreat College; Pre-Nursing Course, Duke University.</i>	Kannapolis, N. C.
Davis, Annie Laura..... <i>Appalachian State Teachers College; Pre-Nursing Course, Duke University.</i>	Todd, N. C.
Dawson, Deborah..... <i>Pre-Nursing Course, Duke University.</i>	Washington, D. C.
Diggs, Gerry Annette..... <i>Emory and Henry College; Pre-Nursing Course, Duke University.</i>	Saltville, Va.
Edwards, Margaret Brennan..... <i>Winthrop College; Pre-Nursing Course, Duke University.</i>	York, S. C.
Elliott, Mary Virginia..... <i>The Woman's College, Duke University; Pre-Nursing Course, Duke University.</i>	Lincolnton, N. C.
Fairey, Margaret Elizabeth..... <i>Winthrop College.</i>	Johnston, S. C.
Ford, Alice Evelyn..... <i>Pre-Nursing Course, Duke University.</i>	Fairmont, W. Va.

<i>Name and Preparation</i>	<i>Home Address</i>
Foy, Beulah Kathryne..... <i>Birmingham-Southern College.</i>	Atlanta, Ga.
Frazier, Patricia Ann..... <i>The Woman's College, Duke University; Pre-Nursing Course, Duke University.</i>	Tampa, Fla.
Gaines, Mary Kathryn..... <i>Woman's College, University of North Carolina.</i>	Winston-Salem, N. C.
Giles, Frances Ann..... <i>Georgia State College for Women; Pre-Nursing Course, Duke University.</i>	Sparta, Ga.
Gonzalez, Elpidia..... <i>Edinburg Junior College; Pre-Nursing Course, Duke University.</i>	Edinburg, Texas
Graveley, Mary Rosalie..... <i>Florida State College for Women.</i>	Orlando, Fla.
Gregory, Ada Virginia..... <i>Florida State College for Women.</i>	Havana, Fla.
Haley, Jean Astor..... <i>The Woman's College, Duke University; Pre-Nursing Course, Duke University.</i>	Durham, N. C.
Hall, Dorothy Emily..... <i>Pre-Nursing Course, Duke University.</i>	Wilmington, N. C.
Harris, Dorothy..... <i>Pre-Nursing Course, Duke University.</i>	Laurel Hill, N. C.
Harry, Margaret Bloomfield..... <i>Georgia State College for Women; Pre-Nursing Course, Duke University.</i>	Warm Springs, Ga.
Hart, Mary Catherine..... <i>Florida State College for Women.</i>	Tallahassee, Fla.
Hatcher, Audrey Virginia..... <i>Madison College.</i>	Roanoke, Va.
Herring, Clyde Fennell..... <i>Flora Macdonald College.</i>	Fayetteville, N. C.
Howell, Margaret Elaine..... <i>Woman's College, University of North Carolina; Pre-Nursing Course, Duke University.</i>	Lillington, N. C.
Hunter, Caroline Gibbes..... <i>University of South Carolina; Pre-Nursing Course, Duke University.</i>	Columbia, S. C.
James, Mary Jordan..... <i>The Woman's College, Duke University; Pre-Nursing Course, Duke University.</i>	Southern Pines, N. C.
Janssen, Billie Jane..... <i>Pre-Nursing Course, Duke University.</i>	Winter Haven, Fla.
Kelly, Frances Bost..... <i>Woman's College, University of North Carolina.</i>	Salisbury, N. C.
Knight, Doris Virginia..... <i>Winthrop College.</i>	Rock Hill, S. C.
Kurz, Flora Mae..... <i>Florida State College for Women.</i>	Tallahassee, Fla.
Kyle, Patricia..... <i>College of William and Mary.</i>	Washington, D. C.
Leach, Mary Elizabeth..... <i>Flora Macdonald College; Pre-Nursing Course, Duke University.</i>	Kinston, N. C.
Long, Jeanne Anne..... <i>Pre-Nursing Course, Duke University.</i>	Gettysburg, Pa.
McKinney, Doris Marie..... <i>Pre-Nursing Course, Duke University.</i>	High Point, N. C.

<i>Name and Preparation</i>	<i>Home Address</i>
Millard, Gipsie..... <i>Teacher's College, Johnson City, Tenn.;</i> <i>Pre-Nursing Course, Duke University.</i>	Blountville, Tenn.
Moore, Janice..... <i>Pre-Nursing Course, Duke University.</i>	Haddonfield, N. J.
Moore, Mary Frances..... <i>Limestone College;</i> <i>Pre-Nursing Course, Duke University.</i>	Kannapolis, N. C.
Norris, Hannah Matilda..... <i>Carolina Teachers College;</i> <i>Pre-Nursing Course, Duke University.</i>	Columbia, N. C.
Palmer, Rachel Eleanor..... <i>Woman's College of Furman University.</i>	Greenville, S. C.
Parmer, Minnie Florine..... <i>Pre-Nursing Course, Duke University.</i>	Chipley, Fla.
Pegram Ruth Ola..... <i>Louisburg College;</i> <i>Pre-Nursing Course, Duke University.</i>	Winston-Salem, N. C.
Petrea, Margaret Lyerly..... <i>Lenoir-Rhyne College.</i>	Salisbury, N. C.
Proctor, Sarah Lucile..... <i>Florida State College for Women.</i>	Tallahassee, Fla.
Pugh, Frances Hope..... <i>Pre-Nursing Course, Duke University.</i>	Franklinville, N. C.
Ray, Nancy Launa..... <i>Pre-Nursing Course, Duke University.</i>	Rocky Mount, N. C.
Rearden, Helen Henrietta..... <i>Mary Washington College.</i>	Arlington, Va.
Rhodes, Dorothy Elizabeth..... <i>Flora Macdonald College;</i> <i>Pre-Nursing Course, Duke University.</i>	Saint Pauls, N. C.
Rice, Dorothy Helen..... <i>Pre-Nursing Course, Duke University.</i>	Durham, N. C.
Roberts, Eltha Garlyn..... <i>Andrew College;</i> <i>Pre-Nursing Course, Duke University.</i>	Macon, Ga.
Roy, Gloria Carmen..... <i>Averett College;</i> <i>Mary Washington College.</i>	Southampton, L. I., N. Y.
Rowlett, Rita Louise..... <i>Florida State College for Women;</i> <i>University of Arkansas.</i>	Bradenton, Fla.
Sanders, DeLane Cecielle..... <i>Limestone College;</i> <i>Pre-Nursing Course, Duke University.</i>	Clover, S. C.
Schumm, Cora Belle..... <i>Pre-Nursing Course, Duke University.</i>	Greensboro, N. C.
Slick, Jane Lenore..... <i>Gettysburg College.</i>	Osterburg, Pa.
Smith, Emily Josephine..... <i>Kent State University;</i> <i>Gnifford College.</i>	Statesville, N. C.
Smith, Ruth Beatrice..... <i>Pre-Nursing Course, Duke University.</i>	Laurinburg, N. C.
Smith, Shirley Mae..... <i>Louisburg College.</i>	Wilmington, N. C.
Smoot, Julia Ann..... <i>Pre-Nursing Course, Duke University.</i>	Dillon, S. C.

<i>Name and Preparation</i>	<i>Home Address</i>
Swartz, Gene Carolyn..... <i>Pre-Nursing Course, Duke University.</i>	Roanoke, Va.
Teiser, Uva Louise..... <i>Woman's College, University of North Carolina.</i>	Henderson, N. C.
Thompson, Margaret White..... <i>Virginia Intermont College; Pre-Nursing Course, Duke University.</i>	Bristol, Va.
Timmons, Miriam..... <i>Georgia State College for Women; Pre-Nursing Course, Duke University.</i>	Augusta, Ga.
Trent, Loa Jean..... <i>Hockaday Junior College; Pre-Nursing Course, Duke University.</i>	Winston-Salem, N. C.
Wall, Rachel Louise..... <i>Peace College; Pre-Nursing Course, Duke University.</i>	Durham, N. C.
Walters, Helen Julia..... <i>University of Newark; The Woman's College, Duke University; Pre-Nursing Course, Duke University.</i>	Mount Holly, N. J.
Weeks, Flora Mary..... <i>Pre-Nursing Course, Duke University.</i>	Pahokee, Fla.
White, Wanda..... <i>The Woman's College, Duke University.</i>	Durham, N. C.
Wiland, Elaine Margaret..... <i>The Woman's College, Duke University.</i>	Lewistown, Pa.
Williams, Anna Beth..... <i>Coker College; Winthrop College.</i>	Ruffin, S. C.
Winters, Virginia Lewis..... <i>Pre-Nursing Course, Duke University.</i>	Charlotte, N. C.
Young, Beverly Ballenger..... <i>Limestone College; Pre-Nursing Course, Duke University.</i>	Orlando, Fla.

GEOGRAPHICAL DISTRIBUTION OF STUDENTS

Alabama	3
Connecticut	1
District of Columbia	6
Florida	33
Georgia	12
Indiana	1
Kentucky	2
Maryland	1
Massachusetts	1
Michigan	1
Mississippi	2
New Jersey	4
New York	6
North Carolina	111
Ohio	2
Pennsylvania	12
South Carolina	31
Tennessee	4
Virginia	14
West Virginia	10
Texas	1
<i>Total</i>	258

SCHOOL OF NURSING GRADUATES

<i>Name</i>	<i>Address</i>
Adams, Dorothy Ellen (Mrs. Ed. Rogers).....	1425 John St., Augusta, Ga. <i>Diploma, 1939; B.S., 1939.</i>
Adams, Katie (Mrs. G. B. Hodge).....	Nursing Arts, Duke Hospital <i>Diploma, 1943; B.S., 1943.</i>
Adams, Maude (Mrs. Percy White).....	Lynnhaven, Va. <i>Diploma, 1938; B.S., 1939.</i>
Alexander, Ruth Brinkley (Mrs. David Wilson)	Obstetrical Supervisor, Duke Hospital <i>Diploma, 1939; B.S., 1940</i>
Allan, Margaret (Mrs. ———).....	Elberton, Ga. <i>Diploma, 1940.</i>
Alley, Charlotte (Mrs. Stuart Steele)	A. N. C., Moore General Hospital, Asheville, N. C. <i>Diploma, 1942.</i>
Allred, Mary Jane.....	U. N. C. Naval Hospital, Jacksonville, Fla. <i>Diploma, 1942; B.S., 1942.</i>
Applewhite, Ida Shaw (Mrs. Wm. Barber)	1919 Lenox Ave., Charlotte, N. C. <i>Diploma, 1939; B.S., 1939.</i>
Arnold, Aldine.....	924 Vickroy St., Pittsburgh 19, Pa. <i>Diploma, 1933.</i>
Atkinson, Pauline (Mrs. J. A. Martin).....	Box 331, Block Island, R. I. <i>Diploma, 1937.</i>
Atzrodt, Rebecca (Mrs. Warner Wells).....	Clarksburg, W. Va. <i>Diploma, 1939; B.S., 1939.</i>
Ayers, Mary Elizabeth (Mrs. Paul McKee).....	Cambria, Va. <i>Diploma, 1943; B.S., 1943.</i>
Babb, Frances (Mrs. J. Russell Andrews)	1017 Denison St., Muskogee, Okla. <i>Diploma, 1941; B.S., 1941.</i>
Bagby, Virginia.....	A. N. C., Station Hospital, Langley Field, Va. <i>Diploma, 1940; B.S., 1940.</i>
Baity, Martha (Mrs. Daniel Elliott).....	Delivery Room, Duke Hospital <i>Diploma, 1944; B.S., 1944.</i>
Bain, Barbara.....	622 W. 168th St., New York 32, N. Y. <i>Diploma, 1943; B.S., 1943.</i>
Baldwin, Olive Douglas.....	Whiteville, N. C. <i>Diploma, 1944; B.S., 1944.</i>
Barbee, Sula (Mrs. George Parks).....	2309 Chapel Hill Rd., Durham, N. C. <i>Diploma, 1938; B.S., 1940.</i>
Barickman, Martha	173 General Hospital Unit, APO 3507, c/o Postmaster, N. Y. C. <i>Diploma, 1943; B.S., 1943.</i>
Barnes, Mary Frances.....	Indiantown Gap, Pa. <i>Diploma, 1944; B.S., 1944.</i>
Barton, Ruth (Mrs. Ed. Habbersett).....	35 South Adams St., Petersburg, Va. <i>Diploma, 1939; B.S., 1939.</i>
Beaton, Frances (Mrs. Gilbert Larson)	1818 Hastings Ave., E. Cleveland, Ohio <i>Diploma, 1943; B.S., 1943.</i>
Bell, Joyce (Mrs. Guy Hager).....	611 Ridge Ave., Sharpsville, Pa. <i>Diploma, 1937.</i>
Benbow, Marjorie Long.....	Duke Hospital, Durham, N. C. <i>Diploma, 1944.</i>
Bennett, Anne.....	Head Nurse, Duke Hospital <i>Diploma, 1944; B.S., 1944.</i>

Name

Address

- Berry, Anne (Mrs. G. F. Bieber)
Diploma, 1938. Murray's Inn, Box No. 1, Virginia Beach, Va.
- Bigler, Ouida Louise
 305 Station Hospital, APO 568, c/o Postmaster, N. Y. C.
Diploma, 1941; B.S., 1941.
- Bisanar, Lelia Elizabeth (Mrs. Adolphe L. Julienne)
Diploma, 1939. 606 Palmetto Ave., Spartanburg, S. C.,
- Black, Frances (Mrs. Walter Hastings)....8118 Foxdale Drive, Norfolk, Va.
Diploma, 1937.
- Blakely, Margie Dean (Mrs. William Thompson)
Diploma, 1937. 89 E. Market St., Rhinebeck, N. Y.
- Boone, Evelyn (Mrs. William Brumbeck).....Box 816, Wilmington, N. C.
Diploma, 1940.
- Boone, Nellie (Mrs. Robert Coon)..1209 N. El Paso, Colorado Springs, Colo..
Diploma, 1936.
- Bowles, Josephine (Mrs. Richard Paddison).....Gloria Ave., Durham, N. C.
Diploma, 1934.
- Boykin, Elizabeth (Mrs. Griffin C. Callahan).....Ronceverte, W. Va.
Diploma, 1943.
- Bradshaw, Julia (Mrs. Leonard Suitt)
 Supervisor of Nursing Service in Dispensary, Duke Hospital
Diploma, 1934.
- Brake, Thelma (Mrs. F. W. Zibkowski).....Rocky Mount, N. C.
Diploma, 1940.
- Brewer, Lottie Mae (Mrs. Clarence Sapp)...Health Dept., Wilmington, N. C.
Diploma, 1938; B.S. 1938.
- Brinkley, Gladys (Mrs. J. F. Stuckey).....1911 Sunset Drive, Raleigh, N. C.
Diploma, 1933.
- Brooke, Mary Inez.....A. N. C., 65th General Hospital
Diploma, 1941; B.S., 1941.
- Brooks, Ida Florence (Mrs. George Bokinsky)
Diploma, 1937. R. F. D. No. 3, Box 24, Greensboro, N. C.
- Bruffey, Jean (Mrs. John E. Pipes).....1250 S. W. 6th St., Miami 35, Fla.
Diploma, 1940.
- Bryant, Carl Denyse (Mrs. Robert Stanley)
Diploma, 1940; B.S., 1940. 209 McPherson Lane, Greenville, S. C.
- Bryant, Edith Virginia.....Medical Supervisor, Duke Hospital
Diploma, 1941; B.S., 1941.
- Bryant, Hazel (Mrs. C. C. Wallace)
Diploma, 1937. 9 Court-4, Lake Forest, Wilmington, N. C.
- Bunch, Mary Elizabeth.....A. N. C., 65th General Hospital
Diploma, 1941; B.S., 1941.
- Bunn, Esper Nan.....A. N. C., 65th General Hospital
Diploma, 1942; B.S., 1942.
- Cadle, Evelyn (Mrs. Robert D. Capen).....1733 Starnes St., Augusta, Ga.
Diploma, 1936; B.S., 1938.
- Caldwell, Faire (Mrs. C. N. Franklin).....Route 2, Matthews, N. C.
Diploma, 1934.
- Camp, Delores (Mrs. J. L. Atkins).....1407 Dollar Ave., Durham, N. C.
Diploma, 1935.
- Carson, Bonnie (Mrs. Joe Jester).....Box 430, Route 1, Fresno, Calif.
Diploma, 1934.

<i>Name</i>	<i>Address</i>
Carter, Mary Irvine (Mrs. C. H. Gay)....	143 Huntley Place, Charlotte, N. C. <i>Diploma, 1935.</i>
Castleberry, Margaret (Mrs. F. Malone)	3901 Alston Ave., Brownwood, Texas <i>Diploma, 1939.</i>
Cates, Ona Maude (Mrs. John Street)	2 Prospect Ave., c/o N. N. Walkin, Darien, Conn. <i>Diploma, 1936.</i>
Chittendon, Eleanor (Mrs. E. E. Menefee)....	2102 Sprunt St., Durham, N. C. <i>Diploma, 1935.</i>
Churan, Dorothy.....	Reading, Pa. <i>Diploma, 1944.</i>
Clapp, Elizabeth (Mrs. C. A. Collins)....	Quarropos St., White Plains, N. Y. <i>Diploma, 1935; B.S., 1937.</i>
Clay, Isa Telford.....	P. O. Box 761, Staunton, Va. <i>Diploma, 1940.</i>
Cobb, Mary Bernice.....	Clinic, Duke Hospital <i>Diploma, 1944.</i>
Cobb, Zula (Mrs. Donald C. Meekham)...	620 Ray Drive, Silver Springs, Md. <i>Diploma, 1934; B.S., 1940.</i>
Coggins, La Una (Mrs. Ira Ross).....	911 N. Broadway, Baltimore 5, Md. <i>Diploma, 1943; B.S., 1943.</i>
Collins, Hallie Jo (Mrs. Jerry Jerome)	3339 S. W. Front, Apt. 1, Portland 1, Ore. <i>Diploma, 1941; B.S., 1941.</i>
Combs, Thelma Jean (Mrs. W. A. Swanson)	110 N. Kincaid Ave., Wilson, N. C. <i>Diploma, 1942.</i>
Cook, Betty Wood (Mrs. J. Bramer).....	Palmyra, N. Y. <i>Diploma, 1939; B.S., 1939.</i>
Cook, Clara Bert (Mrs. Henry Bartlett)	Nursing Office Assistant, Duke Hospital <i>Diploma, 1942.</i>
Cooke, Maude (Mrs. T. A. Peebles)...	1429 Huntington Crescent, Norfolk, Va. <i>Diploma, 1938.</i>
Corbett, Mary Elizabeth (Mrs. R. W. Postlethwait)	Station Hospital, Fort Myer, Va. <i>Diploma, 1936.</i>
Cothran, Mary Lillie (Mrs. William Gregory).....	Box 133, Inman, S. C. <i>Diploma, 1939; B.S., 1939.</i>
Cotter, Ethel (Mrs. George Silver).....	161 Neal St., Portland, Me. <i>Diploma, 1933.</i>
Covington, Mildred (Mrs. Robert Baeder).....	32 Holmes St., Nutley, N. J. <i>Diploma, 1943.</i>
Cowan, Frances (Mrs. Linwood Driver).....	Durham, N. C. <i>Diploma, 1942; B.S., 1942.</i>
Craddock, Alice.....	Delivery Room, Duke Hospital <i>Diploma, 1943; B.S., 1943.</i>
Cranford, Kathryn (Mrs. James Roper)...	133 W. First Ave., Lexington, N. C. <i>Diploma, 1934.</i>
Crawley, Hattie Mildred.....	315 E. Front St., Statesville, N. C. <i>Diploma, 1944; B.S., 1944.</i>
Crowder, Janice.....	Willis Wharf, Va. <i>Diploma, 1944.</i>
Crowell, Alucia (Mrs. Wyatt McDaniel).....	Taylor's, S. C. <i>Diploma, 1939; B.S., 1940.</i>
Crutchfield, Ruth (Mrs. W. P. Fields)	605 Medical Arts Bldg., Norfolk 10, Va. <i>Diploma, 1935.</i>

<i>Name</i>	<i>Address</i>
Currence, Martha.....	Instructor, Grace Hospital, Morganton, N. C. <i>Diploma, 1938; B.S., 1941.</i>
Curtis, Catherine.....	A. N. C., 65th General Hospital <i>Diploma, 1942.</i>
Cutlip, Elenore Lee (Mrs. Hawthorne Sales).....	Head Nurse, Duke Hospital <i>Diploma, 1943; B.S., 1943.</i>
Daffin, Margaret L.....	Duke Hospital <i>Diploma, 1944.</i>
D'Amico, Frances L. (Mrs. Thomas Power).....	Duke Hospital <i>Diploma, 1944.</i>
Darrough, Sara.....	Cabiness Hall, M. C. V., Richmond, Va. <i>Diploma, 1941; B.S., 1941.</i>
Davey, Margaret.....	Veterans Facility, Fayetteville, N. C. <i>Diploma, 1935.</i>
Deaton, Dorothy (Mrs. Henry Dratz).....	Head Nurse, Duke Hospital <i>Diploma, 1941.</i>
Decker, Edna (Mrs. James Wrenn).....	Bellevue Hospital, N. Y. <i>Diploma, 1938; B.S., 1938.</i>
Decker, Kathryn.....	7411 N. Damen Ave., Chicago, Ill. <i>Diploma, 1943.</i>
Dobbin, Louise.....	A. N. C., 65th General Hospital <i>Diploma, 1934.</i>
Doud, Jean.....	Bayshore Rd., Palmetto, Fla. <i>Diploma, 1944; B.S., 1944.</i>
Dugger, Carlotta (Mrs. Frank Mann).....	c/o J. C. Dugger, Emporia, Va. <i>Diploma, 1941.</i>
Dulin, Margaret (Mrs. T. E. Jackson)....	Army Air Field, Apalachicola, Fla. <i>Diploma, 1941.</i>
Dull, Margie.....	Duke Hospital <i>Diploma, 1944; B.S., 1944.</i>
Dunn, Dorothy.....	11100 Euclid Ave., Cleveland, Ohio <i>Diploma, 1938; B.S., 1938.</i>
Eagles, Kathleen.....	A. N. C., 65th General Hospital <i>Diploma, 1938; B.S., 1938.</i>
Edwards, Margaret P.....	Indiantown Gap, Pa. <i>Diploma, 1944; B.S., 1944.</i>
Ellison, Ethel.....	N. N. C., Charleston, S. C. <i>Diploma, 1942.</i>
Estes, Frances (Mrs. Robert Regan).....	5-D Twin Pines, Macon, Ga. <i>Diploma, 1937.</i>
Evans, Elizabeth.....	A. N. C., 65th General Hospital <i>Diploma, 1933.</i>
Ezzell, Mary (Mrs. John C. Glenn, Jr.).....	Head Nurse, Duke Hospital <i>Diploma, 1944; B.S., 1944.</i>
Farquhar, Mary.....	602 Second St., California, Pa. <i>Diploma, 1943; B.S., 1944.</i>
Farrar, Mary Frances..	Supt. Nurses, Durham County Tuberculosis Sanatorium <i>Diploma, 1943.</i>
Farrior, Ethel.....	Head Nurse, Duke Hospital <i>Diploma, 1944.</i>
Feagans, Hilda (Mrs. Fred Larson).....	Veterans Facility, Roanoke, Va. <i>Diploma, 1935.</i>
Fleming, Jessamine.....	Head Nurse, Duke Hospital <i>Diploma, 1944; B.S., 1944.</i>

<i>Name</i>	<i>Address</i>
Forrest, Margaret (Mrs. Ross Porter)..... <i>Diploma, 1935.</i>	Hillsboro, N. C.
Fox, Irene C..... <i>Diploma, 1943.</i>	General Duty, 428 W. 59th St., New York, N. Y.
Fox, June (Mrs. Harold Schiro)..... <i>Diploma, 1935.</i>	Franklin, Va.
Gaines, Dorothy..... <i>Diploma, 1943.</i>	2233 Colony Rd., Charlotte, N. C.
Gambill, Ruth (Mrs. Ben Miller)..... <i>Diploma, 1936.</i>	861 Abelia Rd., Columbia, S. C.
Gandy, Virginia..... <i>Diploma, 1940.</i>	39 W. Copeland Drive, Orlando, Fla.
Gangle, Elsie (Mrs. Elliott Foster)..... <i>Diploma, 1939.</i>	5 Congress St., Worcester, Mass.
Garris, Grace..... <i>Diploma, 1942.</i>	A. N. C., 65th General Hospital
Gibson, Jean (Mrs. Iva Landress)..... <i>Diploma, 1938.</i>	827 10th St., St. Petersburg, Fla.
Gilliam, Hazel (Mrs. William Karmony) <i>Diploma, 1937.</i>	c/o W. B. Gilliam, Harrellsville, N. C.
Gladstone, Annie Laura (Mrs. C. S. Tilley) <i>Diploma, 1937.</i>	2017 Pershing St., Durham, N. C.
Goodman, Eunice..... <i>Diploma, 1934.</i>	Public Health, Raleigh, N. C.
Gordon, Nellie (Mrs. H. G. Hess).. <i>Diploma, 1939.</i>	1910 El Arbolita Drive, Glendale 8, Calif.
Green, Mary (Mrs. Dave Lester) <i>Diploma, 1933.</i>	1202 Medico Dental Bldg., San Diego, Calif.
Green, Mary Elizabeth (Mrs. Phillip Dewees)..... <i>Diploma, 1943; B.S., 1943.</i>	Asheville, N. C.
Green, Patricia..... <i>Diploma, 1944; B.S., 1944.</i>	Duke Hospital
Greenlee, Helen..... <i>Diploma, 1943; B.S., 1943.</i>	Charlotte, N. C.
Gum, Margaret..... <i>Diploma, 1942.</i>	A. N. C., Florence, S. C.
Gunter, Edith..... <i>Diploma, 1944; B.S., 1944.</i>	Assistant Surgical Supervisor, Duke Hospital
Gurley, Louise (Mrs. W. W. Sutton)... <i>Diploma, 1934.</i>	208 N. 20th St., Morehead City, N. C.
Hall, Myra..... <i>Diploma, 1938; B.S., 1938.</i>	A. N. C., N723734, Station Hospital, Station Complement, Camp Kilmer, N. J.
Halter, Gladys..... <i>Diploma, 1944.</i>	Nursing Arts, Duke Hospital
Hampton, Julia..... <i>Diploma, 1937.</i>	Missionary Work, Belgian Congo, Africa
Harp, Dorothy L..... <i>Diploma, 1944; B.S., 1944.</i>	Duke Hospital
Harrison, Ethel..... <i>Diploma, 1943; B.S., 1943.</i>	A. N. C., 107th U. S. General Hospital, APO 121-B, c/o Postmaster, New York, N. Y.
Hartley, Jean..... <i>Diploma, 1943; B.S., 1943.</i>	N. N. C., Jacksonville, Fla.

<i>Name</i>	<i>Address</i>
Hartley, Dare (Mrs. James Filipsocki).....	A. N. C., 65th General Hospital <i>Diploma, 1941; B.S., 1941.</i>
Harvin, Anne (Mrs. J. L. Stewart).....	Anderson, S. C. <i>Diploma, 1942; B.S., 1942.</i>
Hawfield, Annie Jo.....	A. N. C. <i>Diploma, 1933.</i>
Herman, Margaret (Mrs. Buford Guy).....	Statesville, N. C. <i>Diploma, 1934; B.S., 1938.</i>
Herman, Mary Alice (Mrs. H. V. Parks).....	Raleigh, N. C. <i>Diploma, 1934; B.S., 1938.</i>
High, Christine (Mrs. Bernard Huddy).....	O. P. C., Duke Hospital <i>Diploma, 1933.</i>
Hildreth, Lucille.....	Duke Hospital <i>Diploma, 1944.</i>
Hines, Margaret.....	419 Moreell Blvd., Orange, Texas <i>Diploma, 1934; B.S., 1938.</i>
Hinshaw, Esther.....	A. N. C., Africa <i>Diploma, 1940; B.S., 1940.</i>
Hinton, Anna Lee.....	Head Nurse, Duke Hospital <i>Diploma, 1944; B.S., 1944.</i>
Hodges, Charlotte (Mrs. Dan Jones).....	2805 Kilgore St., Raleigh, N. C. <i>Diploma, 1937; B.S., 1938.</i>
Holleman, Matilda (Mrs. Vince Moseley).....	Roxboro Rd., Durham, N. C. <i>Diploma, 1934; B.S., 1936.</i>
Holley, Mildred (Mrs. K. D. Weeks).....	University Apts., Durham, N. C. <i>Diploma, 1937.</i>
Hollowell, Maude.....	Head Nurse, Veterans Facility, Fayetteville, N. C. <i>Diploma, 1935; B.S., 1938.</i>
Horton, Theresa	Assistant Obstetrical and Gynecological Supervisor, Duke Hospital <i>Diploma, 1941; B.S., 1941.</i>
Horton, Virginia.....	312 Dalies Ave., Belen, N. M. <i>Diploma, 1944; B.S., 1944.</i>
House, Martha.....	Head Nurse, Duke Hospital <i>Diploma, 1944.</i>
Hunter, Frances (Mrs. H. D. Castilow)....	248 Highland Ave., Passaic, N. J. <i>Diploma, 1936.</i>
Jarrett, Sara.....	699 Haywood Road, W. Asheville, N. C. <i>Diploma, 1938; B.S., 1938.</i>
Johnson, Gretchen (Mrs. Clyde Cheek)....	1911 Yearby Ave., Durham, N. C. <i>Diploma, 1934.</i>
Johnson, Josephine.....	A. N. C., 65th General Hospital <i>Diploma, 1935; B.S., 1938.</i>
Jones, Helen (Mrs. W. W. Nicholls).....	A. N. C., 65th General Hospital <i>Diploma, 1942.</i>
Jones, Nancy.....	A. N. C., 65th General Hospital <i>Diploma, 1940; B.S., 1940.</i>
Kale, Ella Mae.....	A. N. C., 65th General Hospital <i>Diploma, 1941.</i>
Keesee, Ellen (Mrs. William Craver).....	Night Supervisor, Duke Hospital <i>Diploma, 1943.</i>
Kincaid, Mary G.....	Fire Creek, W. Va. <i>Diploma, 1944; B.S., 1944.</i>

<i>Name</i>	<i>Address</i>
King, Mary Emily (Mrs. Robert Bailey)..... <i>Diploma, 1936.</i>	Public Health, Lenoir, N. C.
King, Virginia B. (Mrs. James T. Funderbuck)... <i>Diploma, 1944; B.S., 1944.</i>	Spence Field, Moultrie, Ga.
Kirkland, Sara (Mrs. Robert Malony)..... <i>Diploma, 1942.</i>	Camp Kilmer, N. J.
Klein, Frances (Mrs. Alfred Henderson)..... <i>Diploma, 1934.</i>	Durham, N. C.
Krebs, Gladys..... <i>Diploma, 1942.</i>	A. N. C., 65th General Hospital
Kuykendal, Margaret (Mrs. William Bizelle)..... <i>Diploma, 1934; B.S., 1938.</i>	Matthews, N. C.
Lambeth, Evelyn..... <i>Diploma, 1944; B.S., 1944.</i>	Operating Room, Duke Hospital
Leatherman, Alice..... <i>Diploma, 1942.</i>	N. N. C., Fort Eustis, Va.
Leatherwood, Elizabeth (Mrs. Bob Goode)... <i>Diploma, 1942; B.S., 1942.</i>	A. N. C., 65th General Hospital
Ledford, Rubye (Mrs. T. Howell Mees).. <i>Diploma, 1941; B.S., 1941.</i>	1707 E. Long St., Columbus 3, Ohio
Lewis, Janice..... <i>Diploma, 1943; B.S., 1943.</i>	A. N. C., Jacksonville, Fla.
Ligon, Martha (Mrs. M. Hill Grimmett)..... <i>Diploma, 1942; B.S., 1942.</i>	Nursing Arts, Duke Hospital
Lineberger, Mary Lou..... <i>Diploma, 1937.</i>	A. N. C., 65th General Hospital
Lingle, Dorothy (Mrs. Henry Kamin)..... <i>Diploma, 1942.</i>	401 Thompson St., East Point, Ga.
Lopp, Lucille..... <i>Diploma, 1937; B.S., 1938.</i>	Public Health, Raleigh, N. C.
Lucas, Mary Josephine..... <i>Diploma, 1944.</i>	Assistant Head Nurse, Duke Hospital
Lyon, Frances (Mrs. Jack Coggins)..... <i>Diploma, 1943; B.S., 1943.</i>	R. F. D., Winston-Salem, N. C.
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Moore, Margaret Carolyn (Mrs. Roderick Jones).....	Burnsville, N. C. <i>Diploma, 1936; B.S., 1937.</i>
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Undergraduate Instruction

(Trinity College, the Woman's College, and the
College of Engineering)



1944-1945

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DURHAM, NORTH CAROLINA
1945

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COLLEGE CALENDARS

TRINITY COLLEGE AND THE COLLEGE OF ENGINEERING

July-October, 1945

July	2, 3	Monday, Tuesday—Orientation and registration.
July	4	Wednesday, 8:00 A.M.—Instruction begins.
Aug.	22	Wednesday—Mid-semester grades due.
Oct.	17	Wednesday—Final examinations begin.
Oct.	23	Tuesday—Final examinations end.
Oct.	24	Wednesday—Recess begins.

November, 1945-February, 1946

Nov.	1-2	Thursday, Friday—Orientation and registration.
Nov.	3	Saturday, 8:00 A.M.—Instruction begins.
Dec.	11	Tuesday—Duke University Day.
Dec.	15	Saturday—Mid-semester grades due.
Dec.	22	Saturday, 3:00 P.M.—Christmas recess begins.
Dec.	27	Thursday, 8:00 A.M.—Instruction resumed.
Feb.	18	Monday—Final examinations begin.
Feb.	23	Saturday—Final examinations end.
Feb.	24	Sunday—Recess begins.

March-June, 1946

March	1-2	Friday, Saturday—Orientation and registration.
March	4	Monday, 8:00 A.M.—Instruction begins.
April	20	Saturday—Mid-semester grades due.
June	17	Monday—Final examinations begin.
June	22	Saturday—Final examinations end.
June	23	Sunday—Recess begins.

THE WOMAN'S COLLEGE

1945

Sept.	13	Thursday, 8:00 A.M.—Dormitories open to Freshmen.
Sept.	13	Thursday, 8:00 P.M.—Assembly for all entering Freshmen; Freshman Orientation Program begins.
Sept.	18	Tuesday—Registration and matriculation of new students with advanced standing.
Sept.	20	Thursday, 8:30 A.M.—Instruction begins.
Sept.	20	Thursday, 12:15 P.M.—Assembly of all students.
Nov.	22	Thursday—Thanksgiving Day: a holiday.
Dec.	11	Tuesday—Duke University Day.
Dec.	19	Wednesday, 1:00 P.M.—Christmas recess begins.

1946

- Jan. 3 Thursday, 1:00 P.M.—Instruction is resumed.
Jan. 19 Saturday—Mid-year examinations begin.
Jan. 29 Tuesday—Mid-year examinations end.
Jan. 30 Wednesday—Last day for matriculation for second semester.
Jan. 31 Thursday—Second semester begins.
May 13 Monday—Final examinations for second semester begin.
May 23 Thursday—Final examinations end.
May 25 Saturday—Commencement Day.
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- May 29 Tuesday—Certain Summer Session classes begin.
June 18 Monday—Registration for first term of Summer Session.
June 19 Tuesday—Opening of Summer Session, first term.
July 30 Monday—First term of Summer Session ends. Registration for second term.
July 31 Tuesday—Second term of Summer Session begins.
Sept. 8 Saturday—Second term of Summer Session ends.

1945

JANUARY	APRIL	JULY	OCTOBER
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1946

JANUARY	APRIL	JULY	OCTOBER
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GOVERNING BODIES AND OFFICERS

EXECUTIVE COMMITTEE OF THE UNIVERSITY

(Consisting of three members from the University Trustees, three from the Endowment Trustees, and the President of the University.)

	Year of Election		
J. F. BRUTON, Chairman.....	1918.....	Wilson,	N. C.
G. G. ALLEN.....	1923.....	New York,	N. Y.
M. E. NEWSOM.....	1917.....	Durham,	N. C.
W. N. REYNOLDS.....	1933.....	Winston-Salem,	N. C.
J. H. SEPARK.....	1929.....	Gastonia,	N. C.
W. R. PERKINS.....	1937.....	New York,	N. Y.
R. L. FLOWERS.....	1923.....	Durham,	N. C.

UNIVERSITY TRUSTEES

Term Expires December 31, 1949

G. G. ALLEN.....	1923.....	New York,	N. Y.
*J. H. BARNHARDT.....	1918.....	Shelby,	N. C.
JAMES A. BELL, Vice-Chairman.....	1920.....	Charlotte,	N. C.
R. G. CHERRY.....	1934.....	Raleigh,	N. C.
R. L. FLOWERS.....	1927.....	Durham,	N. C.
J. P. FRIZZELLE.....	1937.....	Snow Hill,	N. C.
THOMAS M. GRANT.....	1933.....	Rocky Mount,	N. C.
J. R. SMITH.....	1934.....	Mount Airy,	N. C.

FROM THE ALUMNI

B. F. FEW.....	1941.....	New York,	N. Y.
C. F. LAMBETH.....	1915.....	Thomasville,	N. C.
H. B. PORTER.....	1941.....	Raleigh,	N. C.
C. K. PROCTOR.....	1935.....	Oxford,	N. C.

Term Expires December 31, 1945

E. S. BOWLING.....	1939.....	New York,	N. Y.
H. C. DOSS.....	1943.....	Detroit,	Mich.
G. M. IVEY.....	1943.....	Charlotte,	N. C.
B. C. NALLE.....	1941.....	Charlotte,	N. C.
M. E. NEWSOM.....	1917.....	Durham,	N. C.
W. W. PEELE.....	1921.....	Richmond,	Va.
W. R. PERKINS.....	1924.....	New York,	N. Y.
B. S. WOMBLE.....	1915.....	Winston-Salem,	N. C.

FROM THE ALUMNI

†H. R. DWIRE, Ass't. Rec. Secretary.....	1931.....	Durham,	N. C.
N. E. EDGERTON.....	1941.....	Raleigh,	N. C.
R. A. MAYER.....	1897.....	Charlotte,	N. C.
W. A. STANBURY.....	1933.....	Winston-Salem,	N. C.

* Died, January 21, 1945.

† Died, July 17, 1944.

Term Expires December 31, 1947

J. F. BRUTON, Chairman.....	1900.....	Wilson,	N. C.
JAMES B. CRAVEN.....	1941.....	Charlotte,	N. C.
D. S. ELIAS.....	1929.....	Asheville,	N. C.
P. H. HANES.....	1912.....	Winston-Salem,	N. C.
J. L. HORNE, JR.....	1934.....	Rocky Mount,	N. C.
B. E. JORDAN.....	1943.....	Saxapahaw,	N. C.
S. B. TURRENTINE.....	1893.....	Greensboro,	N. C.
EARLE W. WEBB.....	1933.....	New York,	N. Y.

FROM THE ALUMNI

S. S. ALDERMAN.....	1934.....	Washington,	D. C.
W. N. REYNOLDS.....	1927.....	Winston-Salem,	N. C.
J. H. SEPARK.....	1916.....	Gastonia,	N. C.
WILLIS SMITH.....	1929.....	Raleigh,	N. C.

ENDOWMENT TRUSTEES

G. G. ALLEN, Chairman.....	1924.....	New York,	N. Y.
W. R. PERKINS, Vice-Chairman.....	1924.....	New York,	N. Y.
N. A. COCKE, Vice-Chairman.....	1924.....	Charlotte,	N. C.
A. H. SANDS, JR., Secretary.....	1924.....	New York,	N. Y.
E. C. MARSHALL, Assistant Secretary.....	1924.....	Charlotte,	N. C.
W. C. PARKER, Treasurer.....	1924.....	New York,	N. Y.
W. B. BELL.....	1924.....	New York,	N. Y.
C. I. BURKHOLDER.....	1924.....	Charlotte,	N. C.
MRS. DORIS DUKE CROMWELL.....	1933.....	New York,	N. Y.
MRS. J. B. DUKE.....	1924.....	New York,	N. Y.
R. L. FLOWERS.....	1926.....	Durham,	N. C.
B. E. GEER.....	1924.....	Greenville,	S. C.
W. S. RANKIN.....	1925.....	Charlotte,	N. C.
W. N. REYNOLDS.....	1931.....	Winston-Salem,	N. C.
W. S. O'B. ROBINSON, JR.....	1932.....	Charlotte,	N. C.

COMMITTEES OF THE UNIVERSITY TRUSTEES

Buildings and Grounds: J. R. SMITH, CHERRY, BARNHARDT.*

Business Administration of the University: HANES, ELIAS, BOWLING, DOSS.

Colleges: ALDERMAN, HORNE, IVEY.

Divinity School: PEELE, GRANT, PORTER, EDGERTON.

School of Forestry: DWIRE,† NEWSOM, FEW.

Graduate School: WEBB, TURRENTINE, FLOWERS, CRAVEN.

Law School: WILLIS SMITH, WOMBLE, CHERRY, FRIZZELLE.

Library: STANBURY, HANES, LAMBETH.

Medical School and Hospital: MAYER, PROCTOR, NALLE.

Physical Education and Intercollegiate Athletics: SEPARK, J. R. SMITH, PROCTOR, JORDAN.

* Died, January 21, 1945.

† Died, July 17, 1944.

OFFICERS OF ADMINISTRATION

GENERAL ADMINISTRATION

- FLOWERS, ROBERT LEE, A.M., LL.D.
President of the University West Campus
- WANNAMAKER, WILLIAM HANE, A.B., A.M., Litt.D.
Vice-President and Dean of the University West Campus
- *DWIRE, HENRY RUDOLPH, A.B., A.M., LL.D.
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- MARKHAM, CHARLES BLACKWELL, A.B., A.M.
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- BROWER, ALFRED SMITH, A.B.
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- JORDAN, CHARLES EDWARD, A.B.
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- †WEATHERSPOON, EVERETT BROADUS, A.B.
Assistant Secretary 125 Pinecrest Road
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- WHITFORD, WILLIAM EDWARD, A.B.
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- THOMPSON, JAMES EDWARD
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- SAWYER, OTIS, A.B.
Purchasing Agent, Duke University 2010 Club Boulevard
- MOORE, JOHN MEREDITH, A.B.
Manager, the Duke University Stores Prince Street
- * Died, July 17, 1944.
† On active duty, U. S. Army.

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HERRING, HERBERT JAMES, A.B., A.M.
Dean of Trinity College Myrtle Drive, West Campus

BALDWIN, ALICE MARY, A.B., A.M., Ph.D.
Dean of the Woman's College East Campus

HALL, WILLIAM HOLLAND, A.B., A.M., B.C.E., M.S.C.E.
Dean of the College of Engineering 922 Urban Avenue

MANCHESTER, ALAN KREBS, A.B., A.M., Ph.D.
Dean of Freshmen, Trinity College Myrtle Drive, West Campus

SMITH, MRS. RUTH SLACK, A.B., A.M. Faculty Apartments, East Campus
Associate Dean of Undergraduate Instruction, Woman's College

* On active duty, U. S. Navy.

† Died, July 17, 1944.

‡ Resigned, January 31, 1945.

INSTRUCTIONAL STAFF

13

- PERSONS, MRS. ELIZABETH ANDERSON, A.B., A.M. 612 Swift Avenue
Dean of Freshmen, the Woman's College
Secretary of the Committee on Admissions of the Woman's College
- *CLEAVELAND, FREDERIC NEILL, A.B., A.M.
Assistant Dean of Men Duke University
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Counselor in Testing and Guidance 1102 Virginia Avenue

GRADUATE AND PROFESSIONAL SCHOOLS

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Dean of the Divinity School Myrtle Drive, West Campus
- BRANSCOMB, BENNETT HARVIE, A.B., B.A., M.A., Ph.D., Litt.D.
Acting Dean of the Divinity School Hope Valley
- RUSSELL, ELBERT, A.B., A.M., Ph.D., Litt.D.
Dean Emeritus of the Divinity School 804 Fourth Street
- HORACK, HUGO CLAUDE, Ph.B., LL.B., LL.D.
Dean of the School of Law Myrtle Drive, West Campus
- DAVISON, WILBURT CORNELL, A.B., B.A., B.Sc., A.M., D.Sc., M.D.
Dean of the School of Medicine Hope Valley
- PINKERTON, MARGARET ISABEL, R.N., B.S.
Dean of the School of Nursing 412 Swift Avenue
- KORSTIAN, CLARENCE FERDINAND, B.S.F., M.F., M.A., Ph.D.
Dean of the School of Forestry 1718 Duke University Road
- HOLTON, HOLLAND, A.B., J.D.
Director of the Summer Session 809 Watts Street
-
- COLEMAN, MARGARET, A.B., A.M.
Recorder, Trinity College 918 Urban Avenue
- KENDALL, HELEN MILDRED, A.B.
Registrar, School of Law 8 Aycock Apartments
- SEABOLT, LOUISE, A.B., A.M.
Recorder, Woman's College Faculty Apartments

INSTRUCTIONAL STAFF

This alphabetical list includes all members of the various faculties of the University. The date denotes the first year of service.

- ‡ADAMS, DONALD KEITH, (1931) A.B., M.A., Ph.D.
Associate Professor of Psychology Cornwallis Road
- ADDOMS, RUTH MARGERY, (1930) B.A., M.A., Ph.D.
Associate Professor of Botany 1003 Lamond Avenue
- ADLER, ALEXANDRA, (1944) M.D.
Visiting Assistant Professor of Neuropsychiatry Duke Hospital
- *ALEXANDER, LEO, (1941) A.B., M.D.
Associate Professor of Neuropsychiatry 2122 Myrtle Drive
- * On active duty, U. S. Army.
 † Resigned, July 20, 1944.
 ‡ Absent on leave, Government Service, 1944-1945.

- ALTER, ROBERT LEONHARDT, (1939) M.D.
Instructor in Obstetrics and Gynecology Duke Hospital
- ALYEA, EDWIN PASCAL, (1930) S.B., M.D.
Clinical Professor of Urology Hope Valley
- *ANDERSON, LEWIS EDWARD, (1936) B.S., A.M., Ph.D.
Assistant Professor of Botany 305 Frances Street
- ANDERSON, WILLIAM BANKS, (1930) A.B., M.D.
Associate Professor of Surgery in charge of Ophthalmology 503 E. Forest Hills Blvd.
- ARENA, JAY MORRIS, (1933) B.S., M.D.
Assistant Professor of Pediatrics 2032 Club Boulevard
- ATWOOD, THEODORE W., (1934) A.B., D.M.D.
Associate in Dentistry Allenton Apartments
- AVERILL, LOUISE, (1943) B.A., M.A.
Instructor in Art 1507 W. Pettigrew Street
- AYCOCK, THOMAS MALCOLM, (1937) B.S., M.S.
Assistant Professor of Physical Education 406 E. Markham Avenue
- BADENOCH, ERNEST L., (1943) B.S., M.A.
Instructor in Speech Duke University
- BAKER, LENOX DIAL, (1937) M.D.
Associate Professor of Surgery in charge of Orthopaedics Hope Valley
- †BAKER, MAURY DAVIDSON, JR., (1943) A.B., A.M.
Instructor in Engineering Drawing Duke University
- BALDWIN, ALICE MARY, (1923) A.B., A.M., Ph.D.
Professor of History and Dean of the Woman's College East Campus
- ‡BASS, ARNOLD MARVIN, (1943) B.S., M.A.
Instructor in Physics Duke University
- BAUM, PAULL FRANKLIN, (1922) A.B., A.M., Ph.D.
Professor of English 112 Pinecrest Road
- BAYLIN, GEORGE JAY, (1939) A.B., M.D.
Assistant Professor of Radiology and Instructor in Anatomy 2260 Cranford Road
- BEAL, JAMES ALLEN, (1939) B.S., M.S., Ph.D.
Professor of Forest Entomology 2232 Cranford Road
- BEARD, JOSEPH W., (1937) B.S., M.D.
Associate Professor of Surgery in charge of Experimental Surgery Hillsboro, N. C.
- BERNHEIM, FREDERICK, (1930) A.B., Ph.D.
Associate Professor of Physiology and Pharmacology Woodridge Drive, Rockwood
- BERNHEIM, MARY LILIAS CHRISTIAN, MRS., (1930) B.A., M.A., Ph.D.
Assistant Professor of Biochemistry Woodridge Drive, Rockwood
- BERRY, EDWARD WILLARD, (1936) A.B., Ph.D.
Associate Professor of Geology 1003 N. Gregson Street
- BERRY, LUCIA KENDALL, MRS., (1944) B.S.
Instructor in Physical Education 805 Watts Street

* On active duty, U. S. Navy

† Resigned, July 1, 1944.

‡ Resigned, June 30, 1944.

- *BERRY, THOMAS SENIOR, (1935) S.B., M.A., Ph.D.
Instructor in Economics 100 Vineyard Street
- BEVINGTON, MERLE MOWBRAY, (1942) A.B., M.A., Ph.D.
Assistant Professor of English 2608 Nation Avenue
- BIGELOW, LUCIUS AURELIUS, (1929) S.B., Ph.D.
Professor of Chemistry 131 Pinecrest Road
- BILLIG, OTTO, (1941) M.D.
Associate in Neuropsychiatry Duke Hospital
- BIRD, HAROLD CRUSIUS, (1926) Ph.B., C.E.
Professor of Civil Engineering 1209 Virginia Avenue
- BLACK, MARTIN LEE, JR., (1930) A.B., M.B.A., C.P.A.
Professor of Accounting 135 Pinecrest Road
- BLACKBURN, WILLIAM MAXWELL, (1926) A.B., B.A., M.A., Ph.D.
Associate Professor of English 715 Anderson Street
- BLEVINS, DANIEL OSCAR, (1944) B.S., Lieutenant, U. S. Navy
Assistant Professor of Naval Science and Tactics 2501 Banner Street
- BLOMQUIST, HUGO LEANDER, (1920) B.S., Ph.D.
Professor of Botany 922 Demerius Street
- BOLICH, WILLIAM BRYAN, (1927) A.B., B.A. (Juris.), M.A., B.C.L.
Professor of Law Hope Valley
- BONE, ALLAN HADLEY, (1944) B.A., M.M.
Visiting Instructor in Aesthetics, Art, and Music 308 Greenwood Drive
- †BONNER, LYMAN GAYLORD, (1937) A.B., Ph.D.
Assistant Professor of Physics 2708 Nation Avenue
- BOOKHOUT, CAZLYN GREEN, (1935) A.B., A.M., Ph.D.
Assistant Professor of Zoology 1307 Alabama Avenue
- BRADSHER, CHARLES KILGO, (1939) A.B., M.A., Ph.D.
Assistant Professor of Chemistry 2302 Elder Street
- BRADWAY, JOHN SAEGER, (1931) A.B., A.M., LL.B.
Professor of Law 2621 Stuart Drive
- BRANSCOMB, BENNETT HARVIE, (1925) A.B., B.A., M.A., Ph.D., Litt.D.
Professor of New Testament Language and Literature
and Acting Dean of the Divinity School Chelsea Circle, Hope Valley
- BREWSTER, LAWRENCE FAY, (1942) A.B., A.M., Ph.D.
Instructor in History 910 Monmouth Avenue
- ‡BRICE, ASHBEL GREEN, (1939) A.B., A.M.
Instructor in English 814 Sixth Street
- BRIDGERS, FURMAN ANDERSON, (1926) A.B., A.M.
Assistant Professor of Romance Languages 1325 Arnette Avenue
- **BROADHEAD, EDWARD HALL, (1933) A.B., A.M., M.M.
Instructor in Music 1015 Dacian Avenue
- BROWN, FRANCES, (1931) A.B., Ph.D.
Assistant Professor of Chemistry 205 Jones Street
- BROWNELL, WILLIAM ARTHUR, (1930) A.B., A.M., Ph.D., LL.D.
Professor of Educational Psychology Hope Valley

* Absent on leave, Government Service, 1944-1945.

† Absent on leave, Government Service, second semester, 1944-1945.

‡ Resigned, February 28, 1945.

** Resigned, November 1, 1944.

- *BRUINSMA, HENRY A., (1938) B.M., M.M.
Assistant Professor of Music Duke University
- BRYSON, THADDEUS DILLARD, (1928) LL.D.
Professor of Law Hope Valley
- CALLAWAY, JASPER LAMAR, (1937) B.S., M.D.
Associate Professor of Medicine in charge of Dermatology and Syphilology 828 Anderson Street
- CAMERON, EDMUND McCULLOUGH, (1926) A.B.
Acting Director of Physical Education, Trinity College Hope Valley
- CANNON, JAMES, III, (1919) A.B., A.M., Th.B., Th.M., D.D.
Ivey Professor of History of Religion and Missions 803 Second Street
- CARLITZ, LEONARD, (1932) A.B., A.M., Ph.D.
Professor of Mathematics 2303 Cranford Road
- CARPENTER, DAVID WILLIAMS, (1929) A.B., A.M., Ph.D.
Associate Professor of Physics 137 Pinecrest Road
- CARR, JOHN WINDER, JR., (1926) A.B., A.M., Ph.D.
Professor of Education 926 Monmouth Avenue
- †CARROLL, EBER MALCOLM, (1923) A.B., A.M., Ph.D.
Professor of History University Apartments
- CARROLL, R. CHARMAN, (1943) A.B., M.D.
Associate in Psychiatry 812 Anderson Street
- CARROLL, ROBERT SPROUL, (1941) M.D.
Lecturer in Neuropsychiatry Asheville, N. C.
- CARSON, MERL JOHN, (1944) B.A., M.D.
Instructor in Pediatrics Duke Hospital
- CARTER, BAYARD, (1931) A.B., B.A., M.A., M.D.
Professor of Obstetrics and Gynecology Myrtle Drive, West Campus
- CATTELL, RAYMOND BERNARD, (1944) B.S., Ph.D.
Visiting Associate Professor of Psychology Hope Valley Road
- ‡CAVERS, DAVID FARQUHAR, (1931) B.S., LL.B.
Professor of Law Sylvan Road
- CHILDS, BENJAMIN GUY, (1924) B.A., M.A.
Professor of Education 1019 West Markham Avenue
- CLARK, ELON HENRY, (1934)
Assistant Professor of Medical Art and Illustration 2802 Legion Avenue
- CLARK, KENNETH WILLIS, (1931) A.B., B.D., Ph.D.
Associate Professor of New Testament Language and Literature 1308 Markham Avenue
- **CLAY, ALFRED THOMAS, (1941) B.S., A.M., Captain, U. S. Navy, Retired
Professor of Naval Science and Tactics 912 Shepherd Street
- CLYDE, PAUL HIBBERT, (1937) A.B., A.M., Ph.D.
Professor of History Faculty Apartments
- ***COLE, THEODORE STANLEY, (1935) B.S.F., M.F., Ph.D.
Associate Professor of Forest Soils Duke University
- ††COLE, ROBERT TAYLOR, (1935) A.B., A.M., Ph.D.
Associate Professor of Political Science Sylvan Road

* On active duty, U. S. Army.

† Absent on leave, Government Service, 1944-1945.

‡ Absent on leave, Government Service.

** Transferred, April 25, 1944.

*** On active duty, U. S. Marine Corps.

†† Absent on leave, Government Service, first semester, 1944-1945.

CONANT, NORMAN FRANCIS, (1935) B.S., A.M., Ph.D. <i>Associate Professor of Bacteriology and Mycology</i>	Tuscaloosa Forest
CONSTANT, FRANK WOODBRIDGE, (1930) B.S., Ph.D. <i>Associate Professor of Physics</i>	2701 Legion Avenue
COOKE, THOMAS CHEATHAM, (1943) <i>Visiting Instructor in Mechanical Engineering</i>	2209 Wilson Street
COOPER, ALBERT DERWIN, (1934) A.B., M.D. <i>Instructor in Medicine</i>	1006 Dacian Avenue
COOPER, GERALD RICE, (1942) A.B., A.M., Ph.D. <i>Research Associate in Experimental Surgery</i>	2105 Chapel Hill Road
COWPER, FREDERICK AUGUSTUS GRANT, (1918) A.B., A.M., Ph.D. <i>Professor of Romance Languages</i>	1017 Dacian Avenue
CRAIG, HOYLE WILLIAM, (1930) <i>Technical Instructor in Bacteriology</i>	1207 Alabama Avenue
*CRAIG, ROBERT LAWRENCE, (1939) B.A., M.D. <i>Instructor in Neurology</i>	919 Monmouth Avenue
CRAVEN, ERLE BULLA, JR., (1937) A.B., M.D. <i>Associate in Medicine</i>	Winston-Salem, N. C.
CRAVEN, JEAN DAVIDSON, (1944) A.B., M.D. <i>Associate in Pediatrics</i>	Duke Hospital
†CRISPELL, RAYMOND S., (1933) A.B., M.D. <i>Associate Professor of Neuropsychiatry</i>	Duke University
CRUM, MASON, (1930) A.B., Ph.D. <i>Assistant Professor of Biblical Literature</i>	912 Anderson Street
CUYLER, W. KENNETH, (1938) B.A., M.A., Ph.D. <i>Research Instructor in Obstetrics and Gynecologic Laboratory Technics</i>	Pickett Road
DAI, BINGHAM, (1943) A.B., M.A., Ph.D. <i>Lecturer in Psychiatry</i>	2308 Erwin Road
DANN, WILLIAM JOHN, (1934) B.S., Ph.D. <i>Associate Professor of Physiology and Nutrition</i>	113 Pinecrest Road
DARBY, WILLIAM J., (1943) M.D., M.S., Ph.D. <i>Instructor in Preventive Medicine and Public Health</i>	Chapel Hill, N. C.
DAVIDSON, JOHN ALEXANDER, (1944) A.B., M.D. <i>Instructor in Urology</i>	Duke Hospital
DAVIS, CLARENCE DANIEL, (1943) S.B., M.D. <i>Instructor in Endocrinology</i>	2302 Erwin Road
DAVIS, GIFFORD, (1930) A.B., A.M., Ph.D. <i>Assistant Professor of Romance Languages</i>	2015 Wa Wa Avenue
DAVISON, WILBURT CORNELL, (1927) A.B., B.A., B.Sc., M.A., D.Sc., M.D., LL.D. <i>Professor of Pediatrics and Dean of the School of Medicine</i>	Hope Valley
DAWSON, PERCY MILLARD, (1943), A.B., M.D. <i>Visiting Professor of Physiology</i>	2313 Club Blvd.
DEES, JOHN ESSARY, (1939) B.S., M.D. <i>Assistant Professor of Urology</i>	413 Carolina Circle
DEES, SUSAN COONS, (1939) A.B., M.S., M.D. <i>Associate in Pediatrics</i>	413 Carolina Circle

* On active duty, U. S. Army.

† On active duty, U. S. Navy.

- DEJONG, HERMAN, (1943) A.B., M.D.
Associate Professor of Neuropsychiatry University Apartments
- *DELAPLANE, WALTER HAROLD, (1934) A.B., A.M., Ph.D.
Assistant Professor of Economics Duke University
- DE VYVER, FRANK TRAVER, (1935) A.B., A.M., Ph.D.
Professor of Economics 8 Sylvan Road
- DICK, MACDONALD, (1932) B.A., M.A., M.D.
*Assistant Professor of Physiology and Pharmacology
 and Associate in Medicine* Hope Valley Road
- DILLINGHAM, MARJORIE CARTER, MRS., (1941) A.B., M.A.
Instructor in Spanish Mordecai House, East Campus
- DOW, MARIE, MME., (1934) L. ès L., M.A.
Instructor (Part-time) in French 1411 Arcadia Street
- DOW, NEAL, (1934) A.B., M.A., Ph.D.
Assistant Professor of Romance Languages 1411 Arcadia Street
- DRESSEL, FRANCIS GEORGE, (1929) B.S., M.S., Ph.D.
Assistant Professor of Mathematics 309 Frances Street
- †DRUMMOND, VIVIAN MOIZE, MRS., (1943) A.B.
Instructor in Physical Education and Recreation 1717 Roxboro Road
- DUBIN, ISADORE NATHAN, (1942) B.Sc., M.D., C.M.
Associate in Pathology 1411 Sixth Street
- DUKE, KENNETH LINDSAY, (1940) A.B., Ph.D.
Associate in Anatomy 701 Club Boulevard
- EADIE, GEORGE SHARP, (1930) M.A., M.B., Ph.D.
Professor of Physiology and Pharmacology Hope Valley
- EAGLE, WATT WEEMS, (1930) A.B., M.D.
Associate Professor of Surgery in charge of Otolaryngology 804 Anderson Street
- EASLEY, ELEANOR BEAMER, (1934) B.A., M.A., M.D.
Associate in Obstetrics and Gynecology 2614 Stuart Drive
- ‡EASLEY, HOWARD, (1930) A.B., M.A., Ph.D.
Assistant Professor of Education 2614 Stuart Drive
- **EDWARDS, CHARLES WILLIAM, (1898) A.B., A.M., M.S.
Professor of Physics 406 Buchanan Road
- EITEMAN, WILFORD J., (1937) A.B., A.M., Ph.D.
Assistant Professor of Economics 126 Pinecrest Road
- ELLIOTT, WILLIAM WHITFIELD, (1925) B.A., M.A., Ph.D.
Professor of Mathematics 707 Morehead Avenue
- ELLWOOD, CHARLES ABRAM, (1930) Ph.B., Ph.D., LL.D.
Professor Emeritus of Sociology Pinecrest Road
- EPPELSON, JESSE HARRISON, (1930) B.S.
Instructor in Preventive Medicine and Public Health 1601 Hermitage Court
- ***ERICKSON, CYRUS CONRAD, (1937) B.S., B.M., M.D.
Associate in Pathology University Apartments
- EVERETT, JOHN WENDELL, (1932) A.B., Ph.D.
Assistant Professor of Anatomy 2605 University Drive

* Absent on leave, Government Service, 1944-1945.

† Resigned, May 31, 1944.

‡ On active duty, U. S. Navy.

** Retired, June 30, 1944.

*** On active duty, U. S. Army.

- *FERGUSON, ARTHUR BOWLES, (1939) A.B., Ph.D.
Instructor in History Duke University
- * FERGUSON, GEORGE BURTON, (1937) M.Sc. (Med.), M.D.
Associate in Bronchoscopy Beverly Apartments
- FITZGERALD, WILLIAM STONE, (1935) A.B., A.M.
Instructor in English 3 Powe Apartments, 603 Watts Street
- FLEMING, WILLIAM LE ROY, (1939) B.A., M.S., M.D.
Lecturer in Preventive Medicine and Public Health Duke Hospital
- FORBUS, WILEY DAVIS, (1930) A.B., M.D.
Professor of Pathology Hope Valley
- FORSHAG, WAYNE C., (1945) Lieutenant (jg), U. S. Navy
Instructor in Naval Science and Tactics Duke University
- †FOX, HERBERT JUNIUS, (1940) M.D.
Instructor in Medicine Indian Trail
- ‡GARBER, PAUL NEFF, (1924) A.B., A.M., Ph.D. Myrtle Drive, West Campus
Professor of Church History and Dean of the Divinity School
- *GARDNER, CLARENCE ELLSWORTH, JR., (1930) A.B., M.D.
Associate Professor of Surgery Hope Valley
- *GARRARD, ROBERT L., (1941) A.B., M.S., B.S., M.D.
Instructor in Neuropsychiatry 1000 Hale Street
- **GATES, ARTHUR MATTHEWS, (1909) A.B., A.M., Ph.D.
Assistant Professor of Latin 1030 West Trinity Avenue
- GERGEN, JOHN JAY, (1936) A.B., A.M., Ph.D.
Professor of Mathematics 2803 Nation Avenue
- †GIBSON, WILLIAM MARION, (1934) A.B., A.M., Ph.D.
Assistant Professor of Political Science Duke University
- GILBERT, ALLAN, (1920) B.A., A.M., Ph.D.
Professor of English 516 Carolina Circle
- GILBERT, KATHARINE EVERETT, (1930) A.B., A.M., Ph.D., Litt.D.
Professor of Philosophy; Chairman, Department of Aesthetics, Art and Music 516 Carolina Circle
- ***GILLIN, JOHN, (1941) A.B., A.M., Ph.D.
Associate Professor of Anthropology Duke University
- GLASSON, WILLIAM HENRY, (1902) Ph.B., Ph.D., LL.D. 710 Buchanan Road
Professor of Political Economy and Social Science, Emeritus
- GOHDES, CLARENCE, (1930) A.B., A.M., Ph.D.
Professor of English 2614 Stuart Drive
- GOLDIN, JUDAH, (1943) B.S., A.M., D.H.L.
Lecturer on Jewish Literature and History 1614 Delaware Avenue

* On active duty, U. S. Army.

† On active duty, U. S. Navy.

‡ Resigned, July 20, 1944.

** Retired, June 30, 1944.

*** Absent on leave, Government Service, first semester, 1944-1945.

- GOODMAN, ERASTUS GENAIR, JR., (1940) M.D.
Instructor in Medicine Chapel Hill, N. C.
- GRAHAM, WILLIAM ALEXANDER, (1939) A.B., M.D.
Instructor in Obstetrics and Gynecology Beverly Apartments
- GRAVES, ROBERT WILLIAMS, (1936) B.S., M.A., M.D.
Assistant Professor of Neurology Cornwallis Road
- GRAY, IRVING EMERY, (1930) B.S., M.S., Ph.D.
Professor of Zoology 124 Pinecrest Road
- GREENHILL, MAURICE H., (1940) A.B., M.D.
Associate Professor of Neuropsychiatry Hope Valley
- *GREGORY, PAUL M., (1942) A.B., M.A., Ph.D.
Visiting Instructor in Economics 608 Buchanan Blvd.
- GRIMSON, KEITH S., (1942) B.A., B.S., M.D.
Associate in Surgery 213 Cornwallis Road
- GROSS, PAUL MAGNUS, (1919) B.S., A.M., Ph.D.
William Howell Pegram Professor of Chemistry Hope Valley
- GROUT, JULIA REBECCA, (1924) A.B., M.S.
Associate Professor of Physical Education, Woman's College 207 Jones Street
- HACKNEY, GEORGE F., (1943) B.S.
Visiting Instructor in Engineering Drawing 1012 Knox Street
- HAINES, HOWARD N., (1943) B.S.
Visiting Instructor in Engineering Drawing 2307 Club Blvd.
- †HALL, FRANK GREGORY, (1926) A.B., A.M., Ph.D.
Professor of Zoology 122 Pinecrest Road
- HALL, LOUISE, (1931) B.A., S.B. in Architecture, Brevet d'Art de la Sorbonne
Assistant Professor of Fine Arts 210 Faculty Apartments
- †HALL, SNOWDEN COWMAN, (1937) A.B., M.D.
Associate in Medicine Danville, Va.
- HALL, WILLIAM HOLLAND, (1915) A.B., A.M., B.C.E., M.S.C.E.
Professor of Engineering and Dean of the College of Engineering 922 Urban Avenue
- HALLOWELL, JOHN HAMILTON, (1942) A.B., A.M., Ph.D.
Visiting Assistant Professor of Political Science 1502 Bivins Street
- HAMBLÉN, EDWIN CROWELL, (1931) B.S., M.D.
*Associate Professor of Obstetrics and Gynecology, and
Clinical Professor of Endocrinology* 810 Forest Hills Blvd.
- ‡HAMILTON, EARL JEFFERSON, (1927) B.S., A.M., Ph.D.
Professor of Economics 1015 Demerius Street
- HAMILTON, WILLIAM BASKERVILLE, JR., (1936) A.B., A.M., Ph.D.
Assistant Professor of History 2256 Cranford Road
- HANDLER, PHILIP, (1939) B.S., M.S., Ph.D.
Assistant Professor of Biochemistry and Nutrition 2813 Legion Avenue
- HANES, FREDERIC MOIR, (1930) A.B., A.M., M.D.
Florence McAlister Professor of Medicine 2127 Myrtle Drive, West Campus
- HANLON, JOHN J., (1942) B.S., M.S., M.D., M.P.H.
Lecturer in Preventive Medicine and Public Health Duke Hospital

* Resigned, September 25, 1944.

† On active duty, U. S. Army.

‡ Resigned, August 31, 1944.

- HANSEN-PRÜSS, OSCAR CARL EDVARD, (1930) A.B., M.D.
Associate Professor of Medicine in charge of Clinical Microscopy
 3 Surry Road, Hope Valley
- HARGITT, GEORGE THOMAS, (1930) Ph.B., A.M., Ph.D., Sc.D.
Professor of Zoology 811 Watts Street
- *HARRAR, ELWOOD SCOTT, (1936) B.S., M.S., Ph.D.
Associate Professor of Wood Technology 2228 Cranford Road
- †HARRIS, JEROME SYLVAN, (1936) A.B., M.D.
Assistant Professor of Pediatrics and Biochemistry Duke Hospital
- HART, DERYL, (1930) A.B., A.M., M.D.
Professor of Surgery Duke University Road and Highway 751
- HART, HORNE LL NORRIS, (1938) A.B., M.A., Ph.D.
Professor of Sociology 804 Fourth Street
- HARWELL, GEORGE CORBIN, (1935) A.B., A.M., Ph.D.
Instructor in English 2016 Sunset Avenue
- HATLEY, CHARLES CLEVELAND, (1917) A.B., A.M., Ph.D.
Professor of Physics 708 Buchanan Road
- HAUSER, CHARLES ROY, (1929) B.S., M.S., Ph.D.
Associate Professor of Chemistry 1020 Rose Hill Avenue
- ‡HEBB, MALCOLM HAYDEN, (1938) A.B., Ph.D.
Instructor in Physics 137 Pinecrest Road
- HENDRIX, JAMES PAISLEY, (1938) B.S., M.A., M.D.
Associate in Medicine 144 Pinecrest Road
- HERRING, HERBERT JAMES, (1924) A.B., A.M. Myrtle Drive, West Campus
Assistant Professor in Speech and Dean of Trinity College
- HESSER, FREDERICK HARRISON, (1941) A.B., M.D.
Instructor in Neurology 2921 Horton Road
- HETHERINGTON, DUNCAN CHARTERIS, (1930) A.B., M.A., Ph.D., M.D.
Associate Professor of Anatomy Hope Valley
- HICKMAN, FRANKLIN SIMPSON, (1927) A.B., S.T.B., A.M., Ph.D.
Professor of Preaching and the Psychology of Religion, and
Dean of the Chapel 823 Buchanan Road
- HICKSON, ARTHUR OWEN, (1929) A.B., A.M., Ph.D.
Assistant Professor of Mathematics 2712 Legion Avenue
- HILL, DOUGLAS, (1931) A.B., M.A., Ph.D.
Assistant Professor of Chemistry Dixon Road
- HINTON, WILLIAM ARTHUR, (1942) B.S. in M.E., M.S. in M.E.
Assistant Professor of Mechanical Engineering 2124 Englewood Avenue
- HOBBS, MARCUS EDWIN, (1935) A.B., A.M., Ph.D.
Assistant Professor of Chemistry 115 Pinecrest Road
- HOLLINSHEAD, WILLIAM HENRY, (1930) B.A., M.S., Ph.D.
Associate Professor of Anatomy 1008 W. Trinity Avenue
- HOLTON, HOLLAND, (1912) A.B., J.D.
Professor of the History and Science of Education and
Director of the Summer Session 809 Watts Street

* Absent on leave, War Industry Service.

† On active duty, U. S. Army.

‡ Absent on leave, Government Service, 1944-1945.

- HOOKE, ROBERT, (1944) A.B., A.M., Ph.D.
Visiting Assistant Professor of Mathematics,
July 1 to November 1, 1944 Duke University
- HOOPER, CALVIN BRYCE, (1925) A.B., Ph.D., Litt.D.
Professor of Economics and Dean of the Graduate School of
Arts and Sciences 1702 Duke University Road
- HOPPER, SAMUEL HERSEY, (1942) B.S., M.S., Ph.D.
Instructor in Preventive Medicine and Public Health Duke Hospital
- HORACK, HUGO CLAUDE, (1930) Ph.B., LL.B., LL.D.
Professor of Law and Dean of the School of Law
 2021 Myrtle Drive, West Campus
- HUBBELL, JAY BROADUS, (1927) A.B., A.M., Ph.D.
Professor of English 121 Pinecrest Road
- HULL, ROBERT, (1943) B.M., M.M.
Instructor in Music 202 Erwin Apartments
- IRVING, WILLIAM HENRY, (1936) B.A., B.A. (Oxon.), M.A., Ph.D.
Professor of English 2707 Legion Avenue
- *JACOBS, R. KENNETH, (1943) B.S.C.E., B.S. Ed., M.S.
Assistant Professor of Civil Engineering 2515 State Street
- JAMES, MARY FRANCES, (1937) A.B., M.T. (A.S.C.P.)
Technical Instructor in Clinical Microscopy Duke Hospital
- JEFFERS, KATHERINE R., (1937) A.B., A.M., Ph.D.
Assistant Professor of Zoology 1507 West Pettigrew Street
- JENSEN, HOWARD EIKENBERRY, (1931) A.B., A.M., B.D., Ph.D.
Professor of Sociology 143 Pinecrest Road
- JOHNSON, MYCHYLE W., (1937) A.B., Ph.D.
Assistant Professor of Zoology 2108 Sprunt Street
- JOHNSTON, CHRISTOPHER, (1930) A.B., M.D.
Assistant Professor of Medicine 1417 W. Pettigrew Street
- JONES, HENRY HUNTER, (1943) A.B., C.E.
Visiting Instructor in Engineering Drawing 1505 Alabama Avenue
- †JONES, THOMAS T., (1937) A.B., M.D.
Associate in Medicine 1919 Club Boulevard
- JORDAN, ARCHIBALD CURRIE, (1925) A.B., A.M.
Assistant Professor of English Pinecrest Road, Corner U. S. Highway No. 751
- JORDAN, BRADY RIMBEY, (1927) Litt.B., Ph.D.
Professor of Romance Languages 117 Pinecrest Road
- ‡JUDD, MARY, (1943) A.B., M.A.
Instructor in Physical Education 203 Faculty Apartments
- KAISER, HELEN LOUISE, (1943) R.P.T.T.
Instructor in Physical Therapy, in charge of Division of
Physical Therapy 208 Faculty Apartments
- †KEMP, EDWARD H., (1940) A.B., Ph.D.
Assistant Professor of Psychology 1403 Oakland Avenue

* Resigned, April 15, 1944.

† On active duty, U. S. Army.

‡ Resigned, May 31, 1944.

KEMPNER, WALTER, (1934) M.D. <i>Assistant Professor of Medicine</i>	1505 Virginia Avenue
KILGORE, SAMUEL REA, (1943) B.S., M.D. <i>Instructor in Neuropsychiatry</i>	1001 Virgie Street
KING, HERBERT ARTHUR, (1942) A.B., M.D. <i>Instructor in Medicine</i>	1119 Buchanan Boulevard
*KNIGHT, WALTER DAVID, JR., (1943) A.B., A.M. <i>Instructor in Physics</i>	Duke University
KOCH, SIGMUND, (1942) A.B., A.M., Ph.D. <i>Instructor in Psychology</i>	2909 Horton Road
KORSTIAN, CLARENCE FERDINAND, (1930) B.S.F., M.F., M.A., Ph.D. <i>Professor of Silviculture and Dean of the School of Forestry</i>	1718 Duke University Road
KRAMER, PAUL JACKSON, (1931) A.B., M.Sc., Ph.D. <i>Associate Professor of Botany</i>	2251 Cranford Road
KRAYBILL, EDWARD K., (1939) B.S. in E.E. <i>Instructor in Electrical Engineering</i>	900 Dacian Avenue
KRUMMEL, CHARLES ALBERT, (1922) Ph.B., Ph.M., Ph.D. <i>Professor of German</i>	2118 Englewood Avenue
KUHN, HAROLD HUNTER, (1940) A.B., B.S., M.D. <i>Instructor in Orthopaedics</i>	University Apartments
LANDON, CHARLES EDWARD, (1926) A.B., A.M., Ph.D. <i>Assistant Professor of Economics</i>	1517 Edgevale Road
LANNING, JOHN TATE, (1927) A.B., A.M., Ph.D. <i>Professor of History</i>	Hope Valley
LAPRADE, WILLIAM THOMAS, (1909) A.B., Ph.D. <i>Professor of History</i>	1108 Monmouth Avenue
LARSH, JOHN E., JR., (1943) A.B., M.S., Sc.D. <i>Associate in Parasitology</i>	Duke Hospital
LATTY, ELVIN REMUS, (1937) B.S., J.D., J.Sc.D. <i>Professor of Law</i>	Hope Valley
†LEARY, LEWIS, (1941) B.S., A.M., Ph.D. <i>Assistant Professor of English.</i>	1503 Alabama Avenue
LEIGHTON, CLARE, (1943) D.F.A. <i>Visiting Lecturer on Art</i>	Hope Valley Road
LEMERT, BEN FRANKLIN, (1930) B.Sc. in Bus. Admin., M.A., Ph.D. <i>Assistant Professor of Economic Geography</i>	123 Pinecrest Road
LEONARD, HENRY SIGGINS, (1937) A.B., A.M., Ph.D. <i>Associate Professor of Philosophy</i>	107 Pinecrest Road
‡LESTER, RICHARD ALLEN, (1940) Ph.B., M.A., Ph.D. <i>Associate Professor of Economics</i>	2020 Wilson Street
LEWIS, MODENA, (1933) B.S., M.A. <i>Instructor in Physical Education and Dance</i>	305 Erwin Apartments
LEWIS, RALPH ELTON, (1941) B.S., M.S. in M.E. <i>Assistant Professor of Mechanical Engineering</i>	1308 Markham Avenue

* Resigned, June 30, 1944.

† Absent on leave, Government Service, 1944-1945.

‡ Absent on leave, second semester, 1944-1945.

- *LINEBARGER, PAUL MYRON ANTHONY, (1937) A.B., M.A., Ph.D.
Assistant Professor of Political Science Duke University
- LITTLE, LILLIAN H., (1944) B.S., M.A.
Instructor in Physical Education 801 Third Street
- LÖWENBACH, HANS, (1940) M.D.
Assistant Professor of Neuropsychiatry and Physiology 1017 Gloria Avenue
- LONDON, ARTHUR HILL, JR., (1932) B.S., M.D.
Associate in Pediatrics Corner Shepherd and Wells Streets
- LONDON, FRITZ, (1938) Ph.D., Docteur ès Sciences of the University of Paris
Professor of Theoretical Chemistry 1508 Oakland Avenue
- LOVELL, DURWARD LEE, (1937) M.D.
Associate in Surgery University Apartments
- LOWNDES, CHARLES LUCIEN BAKER, (1934) A.B., LL.B., S.J.D.
Professor of Law 2016 Club Boulevard
- LUNDEBERG, OLAV K., (1931) A.B., A.M., Ph.D.
Professor of Romance Languages 127 Pinecrest Road
- LUNDHOLM, HELGE, (1930) Fil. Kand., Fil. Lic., Ph.D.
Professor of Psychology 803 Second Street
- †LYMAN, RICHARD SHERMAN, (1940) B.A., M.D.
Professor of Neuropsychiatry 812 Anderson Street
- McBRYDE, ANGUS, (1931) B.S., M.D.
Assistant Professor of Pediatrics 1522 Hermitage Court
- McCAIN, PAUL PRESSLY, (1931) A.B., M.D., LL.D.
Assistant Professor of Medicine Southern Pines, N. C.
- ‡McCLOY, SHELBY THOMAS, (1927) A.B., M.A., B.A., B.Litt., Ph.D.
Assistant Professor of History Vineyard Street, Tuscaloosa Forest
- McCRACKEN, MAUDE, (1941) A.B., M.S.
Instructor in Medical Social Service 907 N. Mangum Street
- McCREA, FORREST DRAPER, (1930) B.S., M.S., Ph.D.
Associate Professor of Physiology and Pharmacology 1023 Demerius Street
- McUTCHEON, FREDERICK HAROLD, (1944) B.S., M.S., Ph.D.
Visiting Lecturer in Physiology and Pharmacology Duke University
- McDERMOTT, MALCOLM, (1930) A.B., LL.B.
Professor of Law East Campus
- McFEATERS, CHARLIE PAUL, (1944) B.S., Captain, U. S. Navy
Professor of Naval Science and Tactics Myrtle Drive, West Campus
- McGAVOCK, WILLIAM GILLESPIE, (1944) B.S., A.M., Ph.D.
Visiting Assistant Professor of Mathematics 1503 Alabama Avenue
- McKEE, MARY ELLEN, (1944) B.S.
Instructor in Physical Education 113 Faculty Apartments
- **McLARTY, FURMAN GORDON, (1933) A.B., B.A., A.M., Ph.D.
Assistant Professor of Philosophy Hillsboro, N. C.
- McLEAN, RUTH, (1943) A.B., A.M.
Research Associate in Bacteriology Powe Apartments, Buchanan Blvd.
- MAGALHAES, HULDA, (1943) B.S., A.M., Ph.D.
Instructor in Zoology Faculty Apartments

* On active duty, U. S. Army.

† On leave of absence.

‡ Absent on leave, second semester, 1944-1945.

** On active duty, U. S. Navy.

- *MAGGS, DOUGLAS BLOUNT, (1930) A.B., J.D., S.J.D.
Professor of Law Hope Valley
- MAKER, PHILIP TILLOTSON, (1942) A.B., A.M., Ph.D.
Assistant Professor of Mathematics, July 1, 1944, to March 1, 1945 Guess Road
- MANCHESTER, ALAN KREBS, (1929) A.B., A.M., Ph.D.
Associate Professor of History and Dean of Freshmen Myrtle Drive, West Campus
- †MANNING, ISAAC HALL, JR., (1939) A.B., M.D.
Associate in Medicine Duke University
- MARKEE, JOSEPH ELDRIDGE, (1943) B.S., Ph.D.
Professor of Anatomy 512 Jackson Street
- MARSHALL, DONALD, (1944) M.S., Lieutenant (jg), U. S. Navy
Instructor in Naval Science and Tactics 2426 Acadia Street
- MARTIN, DONALD STOVER, (1932) A.B., M.D.
Associate Professor of Bacteriology and Associate in Medicine 2208 Pershing Street
- MARTIN, ELSIE W., (1930) A.B., M.S.
Professor of Dietetics 206 Faculty Apartments, East Campus
- MATTHEWS, GEORGE, JR., (1944) Major, U. S. Army
Commandant, S.C.I., 3427, A.S.T.P. Medical Unit Chapel Hill, N. C.
- MASSENGILL, PAUL ROBINSON, (1943) A.B., M.D.
Instructor in Otolaryngology and Ophthalmology 2114 Club Boulevard
- MAUGHAN, WILLIAM, (1931) B.S., M.F.
Professor of Forest Management 5 Sylvan Road
- ‡MAXWELL, WILLIAM CARY, (1930) A.B., A.M., Ph.D.
Assistant Professor of German 142 Pinecrest Road
- MEIER, OTTO, JR., (1934) B.S. in E.E., M.S., E.E.
Assistant Professor of Electrical Engineering 916 Monmouth Avenue
- MENEFEE, ELIJAH EUGENE, JR., (1940) B.S., M.D.
Associate in Medicine 2314 Woodrow Street
- MENKIN, VALY, (1944) B.S., A.M., M.D.
Assistant Professor of Pathology Duke Hospital
- MICKEY, HAROLD CHANDLER, (1936) B.A.
Associate in Hospital Administration 2223 Cranford Road
- MILAM, DANIEL FRANKLIN, (1939) A.B., M.P.H., M.D.
Associate in Preventive Medicine and Public Health Chapel Hill, N. C.
- MITCHELL, FRANK KIRBY, (1926) A.B., A.M.
Associate Professor of English East Campus
- MONTGOMERY, CLIFFORD COREY, (1944) A.B., A.M.
Visiting Instructor in History, 1944 Erwin Apartments
- ‡MOORE, THOMAS H., (1940) B.S.
Instructor in Economics 1200 W. Markham Avenue
- MOORE, TOM ERNEST, (1944) B.S.
Instructor in Engineering Drawing 123 Cheek Street
- †MORGAN, GEORGE ALLEN, JR., (1936) Ph.B., A.M., Ph.D.
Associate Professor of Philosophy Duke University

* Absent on leave, Government Service.

† On active duty, U. S. Army.

‡ On active duty, U. S. Navy.

- MUFFLEY, BERNARD W. (1944) B.A., M.A., Lieutenant, U. S. Navy
Assistant Professor of Naval Science and Tactics 2422 Acadia Street
- MUTH, RODERICK VINCENT, (1943) Ph.B., Lieutenant, U. S. Naval Reserve
Assistant Professor of Naval Science and Tactics 305 W. Geer Street
- MYERS, HIRAM EARL, (1926) A.B., S.T.B., S.T.M.
Professor of Biblical Literature 141 Pinecrest Road
- NELSON, ERNEST WILLIAMS, (1926) A.B., A.M., Ph.D.
Associate Professor of History 909 North Gregson Street
- NEURATH, HANS, (1938) Ph.D.
Associate Professor of Biochemistry 2505 Club Boulevard
- NICHOLSON, WILLIAM MCNEAL, (1935) A.B., M.D.
Assistant Professor of Medicine 812 Anderson Street
- NIELSEN, WALTER MCKINLEY, (1925) B.S. in E.E., Ph.D.
Professor of Physics 139 Pinecrest Road
- NOOJIN, RAY O., (1940) A.B., M.D.
Instructor in Dermatology and Syphilology 132 Pinecrest Road
- *NORDHEIM, LOTHAR WOLFGANG, (1937) Ph.D.
Professor of Physics 2555 Cranford Road
- NORFLEET, GRIZZELLE M., (1938) A.B., B.S., M.A.
Supervisor of the Spastic Clinic Fifth Street
- ODOM, GUY LEARY, (1943) M.D.
Associate in Neurosurgery Hope Valley Road
- †OGLESBY, ROSCOE RALPH, (1943) A.B., M.A.
Instructor in Engineering Drawing University Apartments
- OOSTING, HENRY JOHN, (1932) A.B., M.S., Ph.D.
Assistant Professor of Botany 2642 University Drive, Rockwood
- ORGAIN, EDWARD STEWART, (1934) M.D.
Assistant Professor of Medicine Hope Valley
- ORMOND, JESSE MARVIN, (1923) A.B., B.D., D.D.
Professor of Practical Theology 110 Pinecrest Road
- OUTLER, ALBERT C., (1938) A.B., A.M., B.D., Ph.D.
Associate Professor of Historical Theology 2122 Englewood Avenue
- OWEN, JOHN FLETCHER, (1943) B.S., M.D.
Lecturer in Neuropsychiatry Duke Hospital
- PALMER, AUBREY E., (1944) B.S.
Instructor in Civil Engineering 103 Turrentine Street
- PARK, HUBERT VERN, (1944) A.B., A.M., Ph.D.
Visiting Associate Professor of Mathematics, July 1 to November 1, 1944 Duke University
- ‡PARKER, HAROLD TALBOT, (1939) A.B., Ph.D.
Instructor in History Duke University
- PARKER, HERMON MANLEY, (1944) A.B., M.A., Ph.D.
Visiting Instructor in Physics, July 1 to October 31, 1944 Duke University
- PATTERSON, KARL BACHMAN, (1920) A.B., A.M.
Assistant Professor of Mathematics 1024 Monmouth Avenue
- PATTINSON, HULME HOLMES, (1943) B.S.M.E., B.A.
Visiting Instructor in Mechanical Engineering 1322 Arnette Avenue

* Absent on leave, Government Service, 1944-1945.

† Resigned, July 1, 1944.

‡ On active duty, U. S. Army.

- PATTON, LEWIS, (1926) A.B., Ph.D.
Associate Professor of English 614 Swift Avenue
- PEARCE, CARNEY COOPER, JR., (1943) M.D.
Associate in Radiology 2631 Chapel Hill Road
- PEARSE, ARTHUR SPERRY, (1926) B.S., A.M., Ph.D., LL.D.
Professor of Zoology Chelsea Circle, Hope Valley
- PEELE, TALMAGE LEE, (1939) A.B., M.D.
Assistant Professor of Anatomy University Apartments
- *PEPPLER, CHARLES WILLIAM, (1912) A.B., Ph.D.
Professor of Greek 406 Buchanan Road
- PERLZWEIG, WILLIAM ALEXANDER, (1930) B.S., A.M., Ph.D.
Professor of Biochemistry Hope Valley
- PERRY, HAROLD SANFORD, (1932) A.B., Ph.D.
Assistant Professor of Botany 2302 Cranford Road
- †PERSONS, ELBERT LAPSLEY, (1930) A.B., M.D.
Assistant Professor of Medicine 723 Anderson Street
- ‡PETERSON, MAURINE, (1942) B.S., M.S.
Instructor in Health Education 1023 Gloria Avenue
- PETRY, RAY C., (1937) A.B., A.M., Ph.D.
Associate Professor of Church History 128 Pinecrest Road
- PICKRELL, KENNETH LEROY, (1943) M.D.
Associate in Surgery 3 Sylvan Road
- PINKERTON, MARGARET ISABEL, (1939) B.S., R.N.
Professor of Nursing and Dean of the School of Nursing 412 Swift Avenue
- POSTON, MARY ALVERTA, (1930) A.M.
Instructor in Bacteriology 512 Watts Street
- **POTEAT, JAMES DOUGLASS, (1936) A.B., LL.B., J.S.D.
Professor of Law 1106 Watts Street
- POTEAT, MARY, (1935) A.B., A.M., Ph.D.
Instructor in English 103 Faculty Apartments
- ***PRATT, LANIER WARD, (1940) A.B., M.A.
Instructor in Romance Languages 2023 Sprunt Street
- PROCTOR, ARTHUR MARCUS, (1923) A.B., A.M., Ph.D.
Professor of Education Myrtle Drive, West Campus
- PUTNAM, FRANK WILLIAM, (1942) B.A., M.A., Ph.D.
Instructor in Biochemistry 1013 Dacian Avenue
- ††QUYNN, DOROTHY MACKAY, MRS., (1930) A.B., A.M., Docteur de l'Université de Paris
Assistant Professor of History Woodridge Drive, Rockwood
- †QUYNN, WILLIAM ROGERS, (1930) B.A., M.A., Ph.D.
Assistant Professor of Romance Languages Woodridge Drive, Rockwood
- RANEY, RICHARD BEVERLY, (1934) A.B., M.D.
Associate in Orthopaedics 1110 Shepherd Street
- RANKIN, ROBERT STANLEY, (1927) A.B., A.M., Ph.D.
Professor of Political Science 1107 Knox Street

* Retired, June 30, 1944.

† On active duty, U. S. Army.

‡ Resigned, May 31, 1944.

** Absent on leave, Government Service.

*** On active duty, U. S. Navy.

†† Absent on leave, 1944-1945.

- RANKIN, WILLIAM WALTER, JR., (1926) B.E., M.A.
Professor of Mathematics 1011 Gloria Avenue
- RATCHFORD, BENJAMIN ULYSSES, (1928) B.S., A.M., Ph.D.
Professor of Economics 133 Pinecrest Road
- RAYMOND, MARY LOIS, (1931) A.B., M.A.
Assistant Professor of Romance Languages 1003 Lamond Avenue
- REAMER, I. THOMAS, (1931) Ph.G.
Instructor in Pharmacy University Apartments
- REDDING, JOSEPH A., (1943) Lieutenant, U. S. Navy
Assistant Professor of Naval Science and Tactics 2428 Acadia Street
- REED, FREDERICK JEROME, (1935) M.E., M.S.
Assistant Professor of Mechanical Engineering 2203 Englewood Avenue
- REEVES, ROBERT JAMES, (1930) A.B., M.D.
Clinical Professor of Radiology 1010 Monmouth Avenue
- *REID, JOHN TURNER, (1939) A.B., A.M., Ph.D.
Assistant Professor of Romance Languages Duke University
- REIQUM, ELDON THOMAS, (1944) B.S., Ensign, U. S. Navy
Instructor in Naval Science and Tactics 117 N. Queen Street
- †REQUE, PAUL GERHARD, (1940) M.D.
Instructor in Medicine, Dermatology and Syphilology 2023 Sprunt Street
- RHINE, JOSEPH BANKS, (1927) B.S., M.S., Ph.D.
Professor of Psychology 908 W. Club Boulevard
- RICHARDSON, MICHAEL RALPH, (1943) A.B., A.M.
Visiting Assistant Professor of Mathematics, July 1 to November 1, 1944 618 McMannen Street
- RICHARDSON, WILLIAM P., (1938) B.S., M.P.H., Ph.D.
Associate in Preventive Medicine and Public Health Chapel Hill, N. C.
- ROBERT, JOSEPH CLARKE, (1938) A.B., A.M., Ph.D.
Associate Professor of History 1102 B Street
- ‡ROBERTS, JOHN H., (1931) A.B., Ph.D.
Associate Professor of Mathematics Legion Avenue, Tuscaloosa Forest
- †ROBERTS, LOUIS CARROLL, (1933) B.S., M.D.
Instructor in Urology 2028 Sunset Avenue
- ROBERTS, WILLIAM M., (1944) M.D.
Lecturer in Orthopaedics Duke Hospital
- ROGERS, ROBERT S., (1937) A.B., A.M. Ph.D., F.A.A.R.
Professor of Latin 148 Pinecrest Road
- ROPP, THEODORE, (1938) A.B., A.M., Ph.D.
Assistant Professor of History 302 Woodridge Drive
- ROSE, JESSE LEE, (1936) A.B., M.A., Ph.D.
Instructor in Latin and Greek 603 Watts Street
- ROSENAU, MILTON JOSEPH, (1936) A.M., M.D.
Lecturer in Preventive Medicine and Public Health Chapel Hill, N. C.
- †ROSS, NORMAN F., (1937) D.D.S.
Instructor in Dentistry Duke Hospital
- ‡ROSS, ROBERT ALEXANDER, (1930) B.S., M.D.
Associate Professor of Obstetrics and Gynecology 818 Anderson Street

* Absent on leave, Government Service, 1944-1945.

† On active duty, U. S. Army.

‡ On active duty, U. S. Navy.

- ROWE, GILBERT THEODORE, (1928) A.B., S.T.D., D.D., Litt.D.
Professor of Christian Doctrine 150 Pinecrest Road
- RUCKER, MARVIN PIERCE, (1941) A.M., M.D., LL.D.
Lecturer in Obstetrics and Gynecology Richmond, Va.
- RUFFIN, JULIAN MEADE, (1930) A.B., M.A., M.D.
Associate Professor of Medicine 816 Anderson Street
- RUSSELL, ELBERT, (1926) A.B., A.M., Ph.D., Litt.D.
Professor of Biblical Interpretation and Dean Emeritus of the Divinity School 804 Fourth Street
- SANDERS, C. RICHARD, (1937) B.Ph., M.A., Ph.D.
Associate Professor of English 1004 Urban Avenue
- *SANDERS, PAUL HAMPTON, (1936) A.B., LL.B.
Associate Professor of Law 2711 Stuart Drive
- SAWYER, CHARLES HENRY, (1944) A.B., Ph.D.
Associate in Anatomy 2119 Englewood Avenue
- SAYLOR, JOHN HENRY, (1928) A.B., A.M., Ph.D.
Associate Professor of Chemistry 707 Club Boulevard
- SCATES, DOUGLAS EDGAR, (1939) A.B., Ph.D.
Associate Professor of Education 2247 Cranford Road
- SCHAUBEL, HOWARD JAMES, (1942) A.B., M.D.
Instructor in Orthopaedics Duke Hospital
- SCHIEBEL, HERMAN MAX, (1939) A.B., M.D.
Instructor in Surgery 1410 Pennsylvania Avenue
- SCHUMACHER, FRANCIS X., (1937) B.S.
Professor of Forestry 6 Sylvan Road
- SEELEY, WALTER JAMES, (1925) E.E., M.S.
Professor of Electrical Engineering 1005 Urban Avenue
- SHARP, D. GORDON, (1939) B.S., M.A., Ph.D.
Research Associate in Experimental Surgery 202 Frances Street
- SHEARS, LAMBERT ARMOUR, (1927) A.B., A.M., Ph.D.
Instructor in German 917 Green Street
- †SHEPHERD, HAROLD, (1939) A.B., J.D.
Professor of Law Cole Mill Road
- SHIELDS, JOHN HERMAN, (1926) A.B., A.M.
Assistant Professor of Accounting 1315 Vickers Avenue
- ‡SHIPMAN, GEORGE A., (1938) A.B., Ph.D.
Associate Professor of Political Science Duke University
- SIMPSON, WILLIAM HAYS, (1930) A.B., A.M., Ph.D.
Assistant Professor of Political Science 1408 Dollar Avenue
- SMITH, DAVID TILLERSON, (1930) A.B., M.D.
Professor of Bacteriology and Associate Professor of Medicine Hope Valley
- **SMITH, FREDRIKA PATCHETT, (1943) B.S., M.A.
Instructor in Physical Education 205 Faculty Apartments
- SMITH, HILRIE SHELTON, (1931) A.B., Ph.D., D.D., Litt.D.
Professor of Christian Ethics and Religious Education 1523 Hermitage Court

* Absent on leave, Government Service.

† On active duty, U. S. Army.

‡ Absent on leave, Government Service, 1944-1945.

** Resigned, May 31, 1944.

- *SMITH, O. NORRIS, (1937) B.A., M.D.
Associate in Medicine Greensboro, N. C.
- SMITH, PRESTON WILLIAM, (1932)
Technical Instructor in Clinical Microscopy Bickett Apartments
- SMITH, ROBERT SIDNEY, (1932) A.B., A.M., Ph.D.
Assistant Professor of Economics 2236 Cranford Road
- SMITH, RUTH SLACK, MRS., (1927) A.B., A.M.
Instructor in Education and Associate Dean of Undergraduate Instruction, Woman's College 115 Faculty Apartments, East Campus
- SMITH, SUSAN GOWER, MRS., (1930) A.B., M.A.
Associate in Medicine Hope Valley
- SNIVELY, MARY HELEN, (1930) R.N., Anes.
Instructor in Anesthesia 2913 Horton Road
- SNOW, WILLIAM BREWSTER, (1942) B.S., M.S.
Instructor in Preventive Medicine and Public Health Duke Hospital
- SPEAS, WILLIAM EUGENE, (1944) A.B., Ph.D.
Visiting Instructor in Physics, July 1 to October 31, 1944 Duke University
- SPENCE, BESSIE WHITTED, MRS., (1929) A.B., A.M., B.D.
Instructor in Biblical Literature Hope Valley
- SPENCE, HERSEY EVERETT, (1918) A.B., A.M., B.D., D.D., Litt.D.
Professor of Biblical Literature and Religious Education Hope Valley
- SPENGLER, JOSEPH JOHN, (1934) A.B., M.A., Ph.D.
Professor of Economics 2240 Cranford Road
- SPONER, HERTHA, (1935) Ph.D.
Professor of Physics Hope Valley
- †SPRINGER, JOHN YOUNG, (1936) A.B., M.B.A.
Assistant Professor of Economics Duke University
- *STEVENS, JOSEPH BLACKBURN, (1940) B.S., M.D.
Associate in Medicine Duke Hospital
- *STILL, BAYRD, (1938) A.B., A.M., Ph.D.
Assistant Professor of History Duke University
- STINESPRING, WILLIAM FRANKLIN, (1936) B.A., M.A., Ph.D.
Professor of Old Testament 1107 Watts Street
- STOCKER, FREDERICK W., (1943) M.D.
Associate in Ophthalmology Bland Apartments
- STROBEL, CHARLES FREDERICK, (1944) A.B., A.M., Ph.D.
Visiting Assistant Professor of Mathematics, July 1 to November 1, 1944 Duke University
- STUBBS, FRANCIS HORATIO, JR., (1942) B.S., M.S., Lieutenant Commander,
U. S. Navy (Ret.)
Associate Professor of Naval Science and Tactics 2106 Woodrow Street
- SUGDEN, HERBERT WILFRED, (1929) A.B., A.M., Ph.D.
Assistant Professor of English University Apartments
- SUITT, ROBERT BURKE, (1940) M.D.
Associate in Neuropsychiatry 1311 Dollar Avenue
- *SULLIVAN, DANIEL JOSEPH, (1940) M.D.
Instructor in Neuropsychiatry Duke Hospital

* On active duty, U. S. Army.

† On active duty, U. S. Navy.

- SUNDERLAND, ELIZABETH READ, (1939-42, 1943) A.B., A.M., Ph.D.
Assistant Professor of Art Faculty Apartments
- SYDNOR, CHARLES SACKETT, (1936) A.B., Ph.D.
Professor of History 116 Pinecrest Road
- TALBERT, ERNEST WILLIAM, (1942) A.B., M.A., Ph.D.
Assistant Professor of English 2803 Nation Avenue
- TAYLOR, ALTON ROBERT, (1939) B.S., Ph.D.
Research Associate in Surgery 2117 Club Boulevard
- TAYLOR, HAYWOOD MAURICE, (1930) B.S., M.S., Ph.D.
Associate Professor of Biochemistry and Toxicology
 University Drive, Rockwood
- THEISS, ERNEST S., (1939) B.S. in M.E., M.S.
Instructor in Mechanical Engineering 2645 University Drive
- *THOMAS, JOSEPH MILLER, (1930) A.B., Ph.D.
Professor of Mathematics 2215 Cranford Road
- †THOMAS, WALTER LEE, JR., (1932) A.B., M.A., M.D.
Assistant Professor of Obstetrics and Gynecology 415 Carolina Circle
- THOMPSON, EDGAR TRISTRAM, (1935) A.B., A.M., Ph.D.
Associate Professor of Sociology and Mental Hygiene 138 Pinecrest Road
- ‡THOMSON, ROY BERTRAND, (1938) B.S., M.F., Ph.D.
Associate Professor of Forest Economics 2243 Cranford Road
- TRAPP, ROBERT NICOL, (1943) B.Sc., M.D., Lieutenant (M.C.) U.S.N.
Medical Officer, School of Medicine 2518 Banner Street
- TRENT, JOSIAH CHARLES, (1939) A.B., M.D.
Instructor in Surgery 1015 Demerius Street
- TRIPLETT, JOSEPH IRWIN, III, (1945) B.S., B.A., Lieutenant, U. S. Navy
Assistant Professor of Naval Science and Tactics Washington Duke Hotel
- ‡TRUESDALE, JAMES N., (1930) A.B., A.M., Ph.D.
Instructor in Greek Duke University
- VAIL, CHARLES ROWE, (1939) B.S. in E.E.
Instructor in Electrical Engineering 1001 Watts Street
- VANCE, MARY HENDREN, MRS., (1926) A.B., A.M.
Assistant Professor of English 208 Watts Street
- VAN ALSTYNE, DOROTHY, (1942) A.B., A.M., Ph.D. Faculty Apartments
Visiting Assistant Professor in Education and Psychology
- VAN DUSEN, ALBERT EDWARD, (1941) B.A., M.A.
Instructor in History 2807 Hillsboro Road
- VAN TUYL, JANICE, (1944) B.S.
Instructor in Physical Education 113 Faculty Apartments
- **VAN VOORHIS, ROBERT HENRY, (1941) A.B., A.M., Ph.D.
Instructor in Economics 1002 Wells Street
- VOLLMER, CLEMENT, (1926) A.B., A.M., Ph.D.
Professor of German 2114 Myrtle Drive, West Campus
- VON BECKERATH, HERBERT, (1935) Ph.D.
Professor of Economics and Political Science Hope Valley

* Absent on leave, Government Service, 1944-1945.

† On active duty, U. S. Army.

‡ On active duty, U. S. Navy.

** Absent on leave, second semester, 1944-1945.

- VOSBURGH, WARREN CHASE, (1928) B.S., M.S., Ph.D.
Professor of Chemistry 2319 Englewood Avenue
- WACKERMAN, ALBERT EDWARD, (1938) B.S., M.F.
Professor of Forest Utilization Dover Road, Hope Valley
- WADE, LUTHER IRWIN, (1943) A.B., Ph.D.
Instructor in Mathematics 2418 Banner Street
- *WADE, WALLACE, (1931) A.B.
Director of Physical Education, Trinity College Myrtle Drive, West Campus
- WALKER, CHARLOTTE FRISCH, (1941) M.D.
Associate in Neuropsychiatry 2121 W. Pettigrew Street
- WALTER, DAVID OSWELL, (1942) A.B., A.M., Ph.D., J.D.
Visiting Assistant Professor of Political Science; 2806 Legion Avenue
Lecturer on Labor Law
- WALTON, LORING BAKER, (1929) A.B., Lic. ès L., Ph.D.
Associate Professor of Romance Languages 2235 Cranford Road
- WARD, CHARLES EUGENE, (1927) A.B., A.M., Ph.D.
Associate Professor of English Guess Road
- WATERS, LUTHER BRADFORD, JR., (1944) B.A., M.D.
Instructor in Radiology 1019 Markham Avenue
- WATSON, KARL BRANTLEY, (1936) B.S., A.B., A.M., Ph.D.
Assistant Professor of Education 1102 Virginia Avenue
- *WATSON, RICHARD L., JR., (1939) A.B., Ph.D.
Instructor in History Duke University
- WAY, VERNON ELGIN, (1930) A.B., A.M., M.A.
Assistant Professor of Greek 909 Gregson Street
- WEBB, ALBERT MICAIAH, (1903) A.B., A.M.
Professor of Romance Languages 1017 Trinity Avenue
- WEEKS, MARGARET, (1942) B.S., M.A.
Instructor in Physical Education Erwin Apartments
- †WELFLING, WELDON, (1936) A.B., A.M., Ph.D.
Assistant Professor of Economics Pickett Road
- WEST, ALFRED THURBER, (1930) B.S., A.M.
Assistant Professor of English 1112 Georgia Avenue
- ‡WHARTON, GEORGE WILLARD, JR., (1939) B.S., Ph.D.
Instructor in Zoology 1420 Pennsylvania Avenue
- WHITE, MARIE ANNE, MRS., (1930) A.B., A.M.
Assistant Professor of English 1003 Lamond Avenue
- WHITE, NEWMAN IVEY, (1919) A.B., A.M., Ph.D.
Professor of English 1003 Lamond Avenue
- WIDGERY, ALBAN GREGORY, (1930) B.A., M.A.
Professor of Philosophy St. Catherine, Pinecrest Road
- WILBUR, RALPH SYDNEY, (1933) B.S. in M.E., M.E.
Professor of Mechanical Engineering 1018 Demerius Street
- WILLIAMS, JAMES WESLEY, (1937) A.B., B.S. in C.E.
Instructor in Civil Engineering 206 Swift Avenue

* On active duty, U. S. Army.

† Absent on leave, Government Service, 1944-1945.

‡ On active duty, U. S. Navy.

- WILSON, FREDERICK ELIPHIAZ, (1923) A.B., A.M.
Assistant Professor of German 1020 Demerius Street
- *WILSON, JOHN WOODROW, (1940) B.S., Ph.D.
Instructor in Zoology 1004 Monmouth Avenue
- WILSON, ROBERT NORTH, (1910) A.B., M.S.
Professor of Chemistry 822 Third Street
- †WILSON, ROBERT RENBERT, (1925) A.B., A.M., Ph.D., LL.D.
Professor of Political Science 717 Anderson Street
- ‡WISE, NANCY BOWMAN, (1937) A.B., M.D.
Associate and James A. Greene Research Fellow in Medicine University Apartments
- WOLF, FREDERICK ADOLPHUS, (1927) A.B., A.M., Ph.D.
Professor of Botany 924 Urban Avenue
- *WOODHALL, BARNES, (1937) A.B., M.D.
Assistant Professor of Surgery in charge of Neurosurgery Duke Hospital
- WOODY, ROBERT HILLIARD, (1929) Ph.B., A.M., Ph.D.
Associate Professor of History 2648 University Drive
- WRIGHT, JOHN JOSEPH, (1940) A.B., M.D., M.P.H.
Instructor in Preventive Medicine and Public Health Duke Hospital
- YOUNG, EDWARD HUDSON, (1923) A.B., A.M.
Assistant Professor of Romance Languages 10 Beverly Apartments
- ZENER, KARL EDWARD, (1928) Ph.B., A.M., Ph.D.
Professor of Psychology Sparger Road
-
- AYRES, ERLE BINGHAM, (1941) S.B., A.M.
Instructor (Part-time) in Chemistry 2109 Chapel Hill Road
- BATCHELDER, MARION FRANCIS, (1939) R.N.
Instructor in Nursing Administration and Supervision Duke Hospital
- BEVINGTON, HELEN SMITH, MRS., (1943) Ph.B., M.A.
Instructor (Part-time) in English 2608 Nation Avenue
- BRESLOW, DAVID SAMUEL, (1944) B.S., Ph.D.
Instructor (Part-time) in Chemistry Duke University
- BRYAN, WILLIAM ALFRED, (1944) A.B., A.M.
Instructor (Part-time) in English Duke University
- BRYSON, EDWIN CONSTANT, (1942) LL.B.
Instructor (Part-time) in Economics 1023 Sycamore Street
- CARNES, WILLIAM FREDERICK, (1944) A.B., A.M.
Visiting Instructor in Mathematics, July 1 to October 31, 1944 Duke University
- *CHAFFIN, NORA CAMPBELL, (1936) A.B., A.M., Ph.D.
Instructor (Part-time) in History Bassett House
- COHEN, ECKFORD LARRY, (1944) B.S.
Instructor (Part-time) in Mathematics Duke University
- CONE, BONNIE ETHEL, (1943) B.S., A.M.
Visiting Instructor in Mathematics, July 1, 1944 to February 28, 1945 407 Watts Street
- DAVIS, ROGER BAXTER, (1944)
Visiting Instructor in Engineering Drawing, July 1 to October 31, 1944 Duke University

* On active duty, U. S. Army.

† Absent on leave, Government Service, 1944-1945.

‡ Absent on leave.

** Resigned, August 31, 1944.

EASTHAM, BARRY CAUFIELD, (1944) B.S., LL.B. <i>Visiting Instructor in Physics</i>	Duke University
EGERTON, FRANKLIN NICHOLAS, (1943) A.B., A.M. <i>Visiting Instructor in Physics</i>	810 Broad Street
EVANS, ALONA E., (1944) A.B. <i>Instructor (Part-time) in Political Science</i>	Duke University
GREENEWALD, HERBERT, (1943) B.S. <i>Visiting Instructor in Physics</i>	1819 Washington Street
HARRIS, ANNA MAE, (1944) A.B., A.M. <i>Visiting Instructor in Mathematics, July 1 to October 31, 1944</i>	Duke University
KENNEDY, PHILIP EDWARD, (1943) A.B., A.M. <i>Instructor (Part-time) in English</i>	Duke University
KOZA, ROBERG WAYNE, (1943) A.B. <i>Visiting Instructor in Physics, July 1 to October 31, 1944</i>	Duke University
KREPS, CLIFTON HOLLAND, (1943) A.B., A.M. <i>Instructor (Part-time) in Economics</i>	Duke University
KREPS, JUANITA MORRIS, MRS., (1943) A.B. <i>Instructor (Part-time) in Economics</i>	Duke University
LOVELL, ERNEST JAMES, JR., (1944) A.B., A.M. <i>Visiting Instructor in English, July 1 to October 31, 1944</i>	Duke University
MANES, MILTON, (1944) B.S. <i>Instructor (Part-time) in Chemistry</i>	Duke University
MOORE, EDWARD JAMES, JR., (1944) B.A. <i>Visiting Instructor in Physics</i>	Duke University
MOORE, THOMAS ERNEST, (1944) B.S. <i>Visiting Instructor in Mechanical Engineering</i>	Duke University
MOORING, FRANCIS PAUL, (1944) A.B. <i>Visiting Instructor in Physics</i>	Duke University
ONCLEY, LAWRENCE, (1944) B.S., M.S. <i>Visiting Instructor in Physics, July 1 to October 31, 1944</i>	Duke University
PALMER, AUBREY EDWIN, (1944) B.S.E., C.E. <i>Visiting Instructor in Civil Engineering</i>	Duke University
PARKER, WILLIAM A., (1944) A.B. <i>Visiting Instructor in Physics, July 1 to October 31, 1944</i>	Duke University
SELL, JACOB CLYDE, (1943) B.S. <i>Visiting Instructor in Physics</i>	Vance Apartments
WEITH, A. JAMES, (1941) A.B., A.M. <i>Instructor (Part-time) in Chemistry</i>	Duke University
*WINTOR, EVA PIRKLE, MRS., (1943) A.B., A.M. <i>Visiting Instructor in Mathematics</i>	Faculty Apartments

RESEARCH ASSOCIATES

ADAMS, JOE TAYLOR	Chemistry	1128 Englewood Avenue
B.S., Southern Methodist University; Ph.D., Duke University		
AMORE, SALVATORE THOMAS	Chemistry	807 Chapel Hill Street
A.B., Brooklyn College; M.A., Ph.D., Duke University		

* Resigned, February 1, 1945.

BRESLOW, DAVID SAMUEL	Chemistry	807 Chapel Hill Street
B.S., College of the City of New York; Ph.D., Duke University		
DARKIS, FREDERICK RANDOLPH	Chemistry	1211 Alabama Avenue
B.S., M.A., Ph.D., University of Maryland		

INSTRUCTIONAL ASSISTANTS

ALTER, ALBERT JERVISS, (1944) A.B., M.D.		
<i>Assistant in Medicine</i>		2414 Club Boulevard
BALDWIN, MARIE, (1944) A.B., M.D.		
<i>Assistant in Neuropsychiatry</i>		Duke Hospital
BASHINSKY, LEO MAX, (1943) A.B., M.D.		
<i>Assistant in Pediatrics</i>		Duke Hospital
BEARD, DOROTHY WATERS, (1938) R.N.		
<i>Research Assistant in Experimental Surgery</i>		Hillsboro, N. C.
BONE, FRANK CUTCHIN, (1944) A.B., M.D.		
<i>Assistant in Medicine</i>		Duke Hospital
BOUCHER, GEORGE ORION, (1943) A.B., M.D.		
<i>Assistant in Pediatrics</i>		Duke Hospital
BROOME, ROBERT ALEXANDER, JR., (1944) M.D.		
<i>Assistant in Medicine</i>		Duke Hospital
BRYSON, EDWIN CONSTANT, (1931) LL.B.		1023 Sycamore Street
<i>Assistant in Legal Aid Clinic; Lecturer in Business Law</i>		
CALLAWAY, EUGENE, JR., (1944) M.D.		
<i>Assistant in Pediatrics</i>		Duke Hospital
COSTNER, ALFRED NIXON, (1944) B.S., M.D.		
<i>Assistant in Otolaryngology and Ophthalmology</i>		Duke Hospital
CULBRETH, GEORGE GORDON, (1944) A.B., M.D.		
<i>Assistant in Pathology</i>		Duke Hospital
DAVIDSON, ALAN, (1944) A.B., M.D.		
<i>Assistant in Otolaryngology and Ophthalmology</i>		Duke Hospital
DAVISON, ATALA THAYER SCUDDER, (1942) A.B., M.D.		
<i>Assistant in Pediatrics</i>		Hope Valley
DONEGAN, CHARLES KENDALL, (1944) M.D.		
<i>Assistant in Medicine</i>		Duke Hospital
EAGLES, WILLIAM MCCOY, (1944) A.B., M.D.		
<i>Assistant in Surgery</i>		Duke Hospital
EDWARDS, JOSEPH PHILIP, (1942)		
<i>Laboratory Technician in Electrical Engineering</i>		1604 B Street
*EDWARDS, LINUS MATTHEW, JR., (1940) D.D.S.		
<i>Assistant in Dentistry</i>		Duke Hospital
ERICKSON, JOHN OTTO, (1939) B.S., Ph.D.		
<i>Research Fellow in Biochemistry</i>		Duke Hospital
GLENN, JOHN CAPERS, (1944) M.D.		
<i>Assistant in Surgery</i>		Duke Hospital
GORDON, LAWRENCE ELLIOTT, JR., (1944) A.B., M.D.		
<i>Assistant in Obstetrics and Gynecology</i>		Duke Hospital

* On active duty, U. S. Army.

GREGORY, LUCY JANE, (1944) A.B., M.D. <i>Assistant in Obstetrics and Gynecology</i>	Duke Hospital
HEIMBURGER, ROBERT FRANCIS, (1944) B.S., M.D. <i>Assistant in Surgery</i>	Duke Hospital
HODGE, GAMEEL BYRON, (1942) B.S., M.D. <i>Assistant in Surgery</i>	Duke Hospital
INGRAM, JAMES MAYHEW, JR., (1944) M.D. <i>Assistant in Obstetrics and Gynecology</i>	Duke Hospital
JONES, EDMUND PARSONS, JR., (1945) B.A., M.D. <i>Assistant in Pediatrics</i>	Duke Hospital
KNIGHT, ALTON J., (1938) A.B., LL.B. <i>Assistant in Legal Aid Clinic</i>	Carver Street (Ext.)
KUHN, BEATRICE HART, (1944) B.A., M.D. <i>Assistant in Dermatology and Syphilology</i>	University Apartments
LEEPER, WILLIAM EDWARDS, JR., (1944) M.D. <i>Assistant in Medicine</i>	Duke Hospital
MASON, MARY LOCHER, MRS., (1931) Diploma in Fine Arts, Teachers College, Columbia University <i>Assistant in Education</i>	2022 Club Boulevard
*MILLER, CHARLES HENDERSON, (1934) A.B., LL.B. <i>Assistant in Legal Aid Clinic; Lecturer in Business Law</i>	2108 Club Boulevard
OLIVER, KEITH MILLNER, (1944) B.S., M.D. <i>Assistant in Pediatrics</i>	Duke Hospital
OTT, JOHN FREDERICK, (1944) M.D. <i>Assistant in Neuropsychiatry</i>	Duke Hospital
POLITANO, VICTOR ANTHONY, (1944) B.S., M.D. <i>Assistant in Urology</i>	Duke Hospital
RILEY, KATHLEEN AMELIA, (1944) B.S., M.D. <i>Assistant in Dermatology and Syphilology</i>	Duke Hospital
RODDA, JAMES MERVIN, (1944) B.A., M.D. <i>Assistant in Radiology</i>	Duke Hospital
ROSS, GUSTAVO, (1943) M.D. <i>Assistant in Pediatrics</i>	Duke Hospital
THOMPSON, KEARNS REID, (1943) A.B., M.D. <i>Assistant in Orthopaedics</i>	Duke Hospital
TURNER, VIOLET HORNER, (1943) B.A., M.D. <i>Assistant in Obstetrics and Gynecology</i>	Duke Hospital
SCHLAYER, CLOTILDE, (1937) Ph.D. <i>Research Assistant in Medicine</i>	Duke Hospital
SEGERSON, JOHN ARTHUR, (1944) A.B., M.D. <i>Assistant in Neurology</i>	Duke Hospital
SHINGLETON, WILLIAM WARNER, (1944) A.B., M.D. <i>Assistant in Surgery</i>	Duke Hospital
SIMMONS, RAYMOND J., (1945) B.S., M.D. <i>Assistant in Surgery</i>	Duke Hospital
SMITH, MILTON CREGO, (1944) A.B., B.S., M.D. <i>Assistant in Pediatrics</i>	Duke Hospital

* Absent on leave, March 1, 1944-1945.

WILSON, DAVID ALEXANDER, (1942) B.A., M.A., M.D. <i>Assistant in Surgery</i>	Duke Hospital
WILSON, MARGARET, (1944) B.S., M.D. <i>Assistant in Otolaryngology and Ophthalmology</i>	Duke Hospital
WITHERS, ROBERT WALKER, JR., (1944) A.B., M.D. <i>Assistant in Pathology</i>	Duke Hospital
ZAVERTNIK, JOSEPH JAMES, (1944) A.B., M.D. <i>Assistant in Surgery</i>	Duke Hospital

**INSTRUCTIONAL ASSISTANTS IN PHYSICAL EDUCATION
TRINITY COLLEGE**

CALDWELL, HERSCHEL, (1930) <i>Instructor in Physical Education; Coach of Freshman Sports</i>	908 Markham Avenue
CARD, WILBUR WADE, (1902) A.B. <i>Instructor in Physical Education</i>	1110 Minerva Avenue
CHAMBERS, ROBERT LUTHER, (1933) B.S. in Ed. <i>Instructor in Physical Education; Head Coach of Varsity Track</i>	2311 Prince Street
COOMBS, JOHN WESLEY, (1929) B.S. <i>Instructor in Physical Education; Head Coach of Varsity Baseball</i>	West Campus
COX, ROBERT CALVIN, (1942) A.B., M.A. <i>Instructor in Physical Education; Assistant in Football</i>	709 Shepherd Street
CRICHTON, MARSHALL, (1931) <i>Instructor in Golf</i>	Hope Valley
*DEAN, DAYTON ROBERT, (1931) A.B. <i>Business Manager of Athletics</i>	2207 Pershing Street
†FOGLEMAN, WILLIAM HARRY, (1935) A.B. <i>Instructor in Physical Education; Coach of Tennis</i>	2417 Farthing Street
GERARD, KENNETH, (1931) B.S. <i>Instructor in Physical Education; Director of Intramural Sports</i>	1209 North Duke Street
HAGLER, ELLIS, (1930) A.B. <i>Instructor in Physical Education; Coach of Varsity Golf; Assistant Coach of Football</i>	220 Forest Wood Drive
†LEWIS, HUBERT MURRY, (1937) B.S. <i>Assistant Instructor in Physical Education and Track</i>	Duke University
†MONTFORT, ROBERT, (1940) B.A. <i>Assistant Instructor in Physical Education</i>	Duke University
PERSONS, WALTER, (1930) A.B. <i>Instructor in Physical Education; Coach of Swimming; Coach of Lacrosse</i>	612 Swift Avenue
POTTER, HARVEY L., (1940) B.A. <i>Instructor in Physical Education; Coach of Wrestling</i>	2200 University Drive
STANLEY, DENNIS KEITH, (1939) A.B.E., M.Ed. <i>Instructor in Physical Education; Assistant Coach of Football</i>	University Apartments

* On active duty, U. S. Navy.

† On active duty, U. S. Army.

THE UNIVERSITY LIBRARIES
UNIVERSITY LIBRARY

BREEDLOVE, JOSEPH PENN, A.B., A.M. <i>Acting Librarian</i>	407 Watts Street
MERRITT, GERTRUDE, A.B. <i>Chief of the Processing Division</i>	1907 Club Boulevard
*NUERMBERGER, GUSTAVE ADOLPH, A.B., A.M., Ph.D. Certificate of Librarianship <i>Head Reference Librarian</i>	2018 Woodrow Street
OYLER, HELEN, A.B., B.S. in L.S. <i>Head Circulation Librarian</i>	512 Watts Street
THARPE, JOSEPHINE M., A.B., B.S. in L.S., M.S. in L.S. <i>Acting Head Reference Librarian</i>	No. 7 Powe Apts., Watts Street
TILLEY, NANNIE M., A.B., M.A., Ph.D. <i>Curator of Manuscripts</i>	Myrtle Drive
WESCOTT, MARY, A.B., B.S. in L.S. <i>Head Cataloguer</i>	403 Watts Street
COVINGTON, LENA, A.B., A.B. in L.S. <i>Head Classifier</i>	403 Watts Street
GREENE, JANE, A.B., B.A. in L.S. <i>Head Order Librarian</i>	1004 West Trinity Avenue
HOPKINS, BERTHA, B.S., A.B. in L.S. <i>Head Serials Librarian</i>	No. 11 Powe Apts., Buchanan Road
PARKER, WIXIE ELMA, A.B., B.S. in L.S. <i>Periodical Librarian</i>	No. 7 Powe Apts., Watts Street
RAMAGE, MARY ALLENE, A.B., B.A. in L.S. <i>Newspaper and Film Librarian</i>	1003 Monmouth Avenue
ROSE, MRS. ETHEL A., A.B. <i>Head Descriptive Cataloguer</i>	Powe Apts., Watts Street
ARDREY, ESTELLE, A.B., A.B. in L.S. <i>Pamphlet Librarian</i>	1007 Urban Avenue
ATKINS, MRS. DOROTHY W., A.B. <i>Assistant, Serials Section</i>	1016 Gloria Avenue
BITTING, MARY ELIZABETH, A.B., M.A., A.B. in L.S. <i>Bibliographer</i>	2105 Club Boulevard
BURCH, VELLA JANE, A.B., M.A., B.A. in L.S. <i>Descriptive Cataloguer</i>	316 N. Elizabeth Street
CANADA, MARY WHITFIELD, A.B., M.A. <i>Assistant, Circulation Department</i>	1311 Second Street
CLINE, JOHN <i>Assistant, Circulation Department</i>	405 S. Alston Street
COPLEY, HILDA <i>Assistant in charge, Work Room</i>	1005 Sixth Street

* On leave in defense work.

DOLLAR, MRS. ANNABELLE <i>Assistant, Work Room</i>	1609 Englewood Avenue
DUKE, MRS. KENNETH L. <i>Secretary to the Librarian</i>	701 Club Boulevard
EHLHARDT, GEORGE BRINKMANN, A.B. <i>Librarian in charge, Divinity School Library</i>	Faculty Apartments
FIELD, MRS. FRANK H., A.B., M.A. <i>Assistant, Serials Section</i>	302 Anderson Street
FREDERICK, MARION <i>Assistant, Serials Section</i>	Y.W.C.A., Durham
FREY, ELLEN FRANCES, B.A., M.A. <i>Undergraduate Reference Librarian and Curator of Rare Books</i>	No. 4 Powe Apts., Buchanan Road
GOODWIN, NOMA LEE, A.B. <i>Assistant, Manuscript Department</i>	Faculty Apartments
HAMMET, BESSIE <i>Accessions Librarian</i>	918 Lamond Avenue
HOCKMAN, MRS. CHARLOTTE F. <i>Assistant, Order Section</i>	No. 4 Powe Apts., Buchanan Road
HOPKINS, BETTY B., A.B. <i>Assistant, Order Section</i>	204 Faculty Apartments
KALE, MRS. ETHEL LONG <i>Assistant in charge, Engineering Library</i>	Chapel Hill Road
KENNEDY, Jo, A.B., B.S. in L.S. <i>Documents Librarian</i>	2316 Club Boulevard
KIRKLAND, DOROTHY, A.B. <i>Assistant, Descriptive Cataloguing Section</i>	208 Jones Street
LAWS, ELLEN FRANCES <i>Assistant, Descriptive Cataloguing Section</i>	Route No. 1, Durham
LEMEN, WILHELMINA, A.B., A.B. in L.S. <i>Serials Cataloguer</i>	805 Sixth Street
LINTHICUM, ERMA <i>Assistant, Circulation Department</i>	811 Wilkerson Avenue
LONG, EDITH, A.B. <i>Assistant, Periodical Room</i>	104 Faculty Apartments
MANER, ADELAIDE S., A.B., B.S. in L.S. <i>Subject Cataloguer</i>	208 Buchanan Road
MACMILLAN, LOUISE, A.B. <i>Assistant, Serials Section</i>	1414 Dollar Avenue
RUTLEDGE, MRS. EVELYN H., A.B., B.S. in L.S. <i>Bibliographer</i>	717 Anderson Street
SHERMAN, ELLA FRANCES <i>Secretary to the Chief of the Processing Division</i>	1004 West Trinity Avenue
SLOAN, MRS. PERRY, A.B. <i>Assistant, Descriptive Cataloguing Section</i>	1020 West Trinity Avenue
SHUFORD, MARY OPAL, A.B., A.B. in L.S. <i>Assistant Classifier</i>	805 Sixth Street
SMITH, MRS. WILLIS, JR. <i>Assistant, Circulation Department</i>	University Apartments

STARR, MRS. M. KENNETH <i>Assistant, Circulation Department</i>	601 Watts Street
THOMPSON, MRS. VIRGINIA K., A.B., B.A. in L.S. <i>Subject Cataloguer and Reference Librarian</i>	2416 Huron Street
WATKINS, MRS. MARJORIE S., A.B., M.A. <i>Librarian in charge, Biology Library</i>	202 Faculty Apartments
WILKERSON, RUTH <i>Assistant to Classifiers</i>	1016 Gloria Avenue
WILKERSON, MRS. LUTHER C. <i>Assistant, Order Section and Assistant Secretary to the Acting Librarian</i>	505 Yates Avenue
WOOD, MRS. SALLIE L. <i>Librarian in charge, Physics-Mathematics Library</i>	1113 N. Duke Street
YOUNG, MRS. JEAN STEINER, A.B. <i>Assistant, Manuscript Department</i>	214 Faculty Apartments

WOMAN'S COLLEGE LIBRARY

GRIGGS, LILLIAN BAKER, MRS., B.A. in L.S. <i>Librarian</i>	915 Monmouth Avenue
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HARRISON, EVELYN JENNINGS, A.B., B.S. in L.S. <i>Head Cataloguer</i>	403 Watts Street
HICKS, MRS. SPEARS, A.B., A.B. in L.S. <i>Reference Librarian</i>	121 West Seeman Street
BRYAN, MRS. ENID PARKER, A.B., M.A., Ph.D., B.A. in L.S. <i>Periodicals Librarian</i>	307 Faculty Apartments
FRYER, MRS. VIRGINIA LEE, A.B. <i>Assistant, Circulation Department</i>	808 Third Street
TILLET, MARGARET S., A.B., A.B. in L.S. <i>Circulation Librarian</i>	112 West Seeman Street
TYSINGER, CATHERINE VICTORIA, A.B., B.S. in L.S. <i>Cataloguer</i>	East Campus
VOGELL, MRS. FRANCES <i>Assistant, Catalogue Department</i>	1511 Jackson Street

LAW LIBRARY

*ROALFE, WILLIAM ROBERT, LL.B. <i>Librarian</i>	2410 West Club Boulevard
LONG, MARIANNA, A.B., B.S. in L.S. <i>Acting Librarian</i>	403 Watts Street
<hr/>	
COVINGTON, MARY SIMMONS, A.B., LL.B. <i>Research Librarian</i>	East Duke Campus
DAY, KATHERINE, B.S. <i>Assistant Cataloguer</i>	512 Watts Street
HARWELL, MRS. GEORGE, A.B. <i>Assistant in Cataloguing Division</i>	2016 Sunset Avenue

* Absent on leave, Government Service.

MEDICAL SCHOOL LIBRARY

FARRAR, JUDITH, A.B., B.S.
Librarian

117 Faculty Apartments, East Campus

UNIVERSITY CHAPEL

HICKMAN, FRANKLIN SIMPSON, A.B., A.M., S.T.B., Ph.D.
Dean of the Chapel

823 Buchanan Road

BARNES, JAMES FOSTER, A.B., A.M.
Director of Choral Music

2401 Cranford Road

BREES, ANTON
University Carillonneur

Duke University

*BROADHEAD, EDWARD HALL, A.B., A.M., M.M.
University Organist

1015 Dacian Avenue

HENDRIX, MILDRED LITTLE, MRS., B.S.
University Organist

144 Pinecrest Road

DUBOSE, ROBERT NEWSOME, A.B., B.D.
Adviser in Religious Activities

Duke University

†HIGHSMITH, AGNES, A.B., A.M.
Assistant in Religious Activities, Woman's College

113 Faculty Apartments

PHYSICAL EDUCATION AND STUDENT HEALTH

‡WADE, WALLACE, A.B.
Director of Physical Education, Trinity College

West Campus

CAMERON, EDMUND McCULLOUGH, A.B.
Acting Director of Physical Education, Trinity College

Hope Valley

GROUT, JULIA REBECCA, A.B., M.S.
*Associate Professor of Physical Education,
 Woman's College*

205 Jones Street

SPEED, JOSEPH ANDERSON, M.D.
Director of Student Health

913 Dacian Avenue

PAGE, WRAY RAMSEY, MRS., R.N.
Resident Nurse

East Campus Infirmary

VESTAL, MOZELLE, R.N.
Resident Nurse

East Campus Infirmary

MUSICAL ACTIVITIES

BARNES, JAMES FOSTER, A.B., A.M.
Director of Men's Glee Club

2401 Cranford Road

BARNES, MRS. JAMES FOSTER
Director of Women's Glee Club

2401 Cranford Road

* Resigned, November 1, 1944.

† Resigned, November 30, 1944.

‡ On active duty, U. S. Army.

*FEARING, ROBERT BEVERIDGE <i>Director of the College Orchestras and Band</i>	410 Watts Street
BONE, ALLAN H., B.A., M.M. <i>Acting Director of College Band</i>	308 Greenwood Drive
HULL, ROBERT, B.M., M.M. <i>Acting Director of the College Orchestras</i>	202 Erwin Apartments

RESIDENCE AND SOCIAL DIVISION

WILSON, MARY GRACE, A.B. <i>Dean of Residence, Woman's College</i>	Faculty Apartments
SCHRADER, MRS. ARLINE DITLEYSON, A.B., A.M. <i>Assistant to Dean of Residence; Counselor, Aycock House</i>	Aycock House
PEMBERTON, MRS. MARY NORCOTT <i>Hostess, West Campus</i>	West Campus Union
BARNES, EVELYN, B.S. <i>Counselor, Alsbaugh House</i>	Alsbaugh House
DALE, DOROTHY J., A.B. <i>Counselor, Bassett House</i>	Bassett House
HULL, ALMA, A.B. <i>Counselor, Pegram House</i>	Pegram House
PATTON, DOROTHY, A.B. <i>Counselor, Brown House</i>	Brown House
TAYLOR, MRS. HARRIET <i>Counselor, Giles House</i>	Giles House
WELLBORN, MARY MOSS, A.B. <i>Counselor, Jarvis House</i>	Jarvis House
POWELL, VIRGINIA, B.S. <i>Dietitian, the Union, West Campus</i>	214 Swift Avenue
OLIVER, MRS. HELEN <i>Dietitian, the Union, East Campus</i>	Corner Fairview and Wells Streets
NORWOOD, MRS. G. D. <i>Dietitian, Southgate Hall</i>	204 Watts Street
<hr/>	
BORING, MRS. HAL <i>Supervisor of Dormitories, West Campus</i>	115 Watts Street
HOOKE, MRS. MARY R. <i>Supervisor of Dormitories, East Campus</i>	Powe Apartments, Buchanan Road
LEA, MRS. BEULAH C. <i>Supervisor of Dormitories, West Campus</i>	1920 Chapel Hill Road
LONG, MRS. R. T. <i>Supervisor of Dormitories, West Campus</i>	705 Shepherd Street
WEGENER, MRS. MARY E. <i>Supervisor of Dormitories, East Campus</i>	Powe Apartments, Buchanan Road
<hr/>	
ALDRIDGE, FRED SOULE, A.B., A.M. <i>Chaplain of Duke Hospital and Director of the Golden Cross</i>	East Campus

* On active duty, U. S. Army.

FELLOWS AND GRADUATE ASSISTANTS

UNIVERSITY FELLOWS

<i>Name</i>	<i>Department</i>	<i>Home Address</i>
*BAKER, MAURY DAVISON, JR. A.B., University of Miami; A.M., Duke University	History	Richmond, Va.
BUCHANAN, EDITH A.B., Meredith College	English	Cullowhee, N. C.
CARROLL, HOWARD A.B., University of Richmond; B.D., Duke University	Religion	Easton, Md.
GESLING, MARTHA MYRA A.B., Ohio Northern University; A.M., Ohio State University	Education	Lancaster, Ohio
HERTZ, HILDA A.B., Skidmore College; A.M., Duke University	Sociology	Forest Hills, L. I., N. Y.
KREPS, CLARA JUANITA MORRIS A.B., Berea College; A.M., Duke University	Economics	Norfolk, Va.
KREPS, CLIFTON HOLLAND, JR. B.A., The College of William and Mary; A.M., University of North Carolina	Economics	Norfolk, Va.
LEWIS, FRANK BELL A.B., A.M., Washington & Lee University; B.D., Th.M., Union Theological Seminary	Religion	Maxwelton, W. Va.
MATTE, LORENZO B.A., Laval University; M.F., Duke University	Forestry	Quebec City, Canada
NAU, WALTER THEODORE A.B., Guilford College; B.D., Concordia Theological Seminary; A.M., Duke University	Romance Languages	Lexington, N. C.
PARKS, ELIZABETH MIRIAM A.B., Grinnell College	English	Denver, Colo.
RHODES, DANIEL DURHAM A.B., Davidson College; B.D., Louisville Presbyterian Theological Seminary	Religion	Rocky Point, N. C.
SALOMON, ANN DOUGLASS A.B., Swarthmore College	Psychology	New London, Conn.
SCHAFER, THOMAS ANTON A.B., Maryville College; B.D., Louisville Presbyterian Theological Seminary	Religion	E. Liverpool, Ohio
WIGGINS, ELIZABETH LEWIS A.B., Winthrop College; A.M., Duke University	English	Holly Hill, S. C.
WOOD, VIRGINIA LORAIN A.B., Roanoke College; A.M., Duke University	Political Science	Roanoke, Va.
YOUNG, FRANKLIN WOODROW A.B., Dartmouth College; B.D., Crozer Theological Seminary	Religion	Columbus, Ohio

GRADUATE RESEARCH ASSISTANTS

BLOOM, MELVIN SIGMUND B.S., Furman University	Chemistry	Greenville, S. C.
SCHERAGA, HAROLD ABRAHAM B.S., College of the City of New York; A.M., Duke University	Chemistry	Durham, N. C.

* Resigned, January 31, 1945.

<i>Name</i>	<i>Department</i>	<i>Home Address</i>
SHIVERS, JOSEPH CLOIS, JR. B.S., A.M., Duke University	Chemistry	Riverton, N. J.
WALKER, HOWARD GEORGE, JR. B.S., Duke University	Chemistry	Westfield, N. J.
WEISS, MARTIN JOSEPH A.B., New York University	Chemistry	New York, N. Y.
WEITH, ARCHIE JAMES, JR. A.B., A.M., Duke University	Chemistry	Caldwell, N. J.
YOST, ROBERT STANLEY B.S., Pennsylvania State College	Chemistry	Pottsville, Pa.

GRADUATE ASSISTANTS

BISHOP, BENJAMIN HAROLD B.S., Wofford College	Chemistry	Spartanburg, S. C.
BRAVERMAN, HOWARD A.B., Brooklyn College	History	Brooklyn, N. Y.
BRYAN, THOMAS CONN A.B., Duke University; A.M., University of North Carolina	History	Skyland, N. C.
CAPUA, JULIUS PAUL, II A.B., Augustana College	History	Muskegon, Mich.
CLAVERING, ROSE A.B., Brooklyn College	English	Brooklyn, N. Y.
COHEN, ECKFORD LARRY B.S., Mississippi State College	Mathematics	Starkville, Miss.
COLLINS, HERBERT A.B., Brooklyn College	History	Brooklyn, N. Y.
CULBERTSON, JACK ARTHUR A.B., Emory and Henry College	German	Nickelsville, Va.
*CUMMINGS, ANNE BURT STAINBACK A.B., Hollins College	Psychology	Pittsburgh, Pa.
DENNY, MARY REBECCA A.B., Salem College; A.M., Duke University	English	Charlotte, N. C.
DILLINGHAM, WILLIAM PYRLE B.A.E., University of Florida; M.S., University of Tennessee	Economics	Durham, N. C.
FOUCH, ANN A.B., Duke University	Zoology	Orrville, Ohio
GIULIANO, JERRY JAMES B.S., Duke University	Chemistry	Irvington, N. J.
HOLMAN, HARRIET R. A.B., Winthrop College; A.M., University of Michigan	English	Anderson, S. C.
HORN, HERMAN LIONEL A.B., Bridgewater College; A.M., Duke University	Political Science	Mt. Solon, Va.
KINGSTON, MARION JOSEPHINE A.B., Mount Holyoke College	English	Melrose, Mass.
KNOX, NORMAN DAVIS A.B., Swarthmore College	English	Durham, N. C.

* Second semester only.

<i>Name</i>	<i>Department</i>	<i>Home Address</i>
LAIR, EUGENIE DILLE A.B., Randolph-Macon Woman's College	Botany	Cynthiana, Ky.
LEVINE, BERTRAM A.B., Duke University	Zoology	Paterson, N. J.
LUBORSKY, LESTER BERNARD A.B., Temple University; A.M., Duke University	Psychology	Philadelphia, Pa.
PETERS, FRANK ANTHONY A.B., University of Alabama	History	Tuscaloosa, Ala.
PURCELL, CHARLES WILLIAM, JR. A.B., Marshall College	History	Huntington, W. Va.
RINGLER, BETTY IRENE B.S., Florida State College for Women	Chemistry	St. Petersburg, Fla.
ROGERS, DOROTHY A.B., A.M., University of Georgia	Education	Ashburn, Ga.
ROSENBAUM, HASKELL MENACHIM B.S., College of the City of New York	Chemistry	Sunnyside, N. Y.
SALTZMAN, IRVING JACKSON B.S., Massachusetts State College	Psychology	Dorchester, Mass.
SCHULZE, FRANCES ELAINE A.B., Marshall College	Psychology	Pelham Manor, N. Y.
SHIREY, WILLIAM ARTHUR A.B., DePauw University; A.M., Indiana University	Sociology	Durham, N. C.
TOMLINSON, MURIEL DOROTHY A.B., Bates College	Romance Languages	Manchester, Conn.
TURNER, ANNE CLARA A.B., University of Georgia; A.M., Duke University	Latin	Albany, Ga.
WARREN, MARGARET ELIZABETH A.B., Duke University	Chemistry	Shaker Heights, Ohio
WICKER, GLORIA LOUISE B.S., Lander College	Chemistry	Greenwood, S. C.
WIGGINS, PAULINE EVELYN A.B., University of Chattanooga	English	Birchwood, Tenn.
ZEKOWSKI, ARLENE JEAN A.B., Brooklyn College	Romance Languages	Brooklyn, N. Y.

GRADUATE SCHOLARS

BARSTOW, BETTY DICK A.B., University of Michigan	Mathematics	Midland, Mich.
BENNETT, JEAN ARLINE A.B., Duke University	Romance Languages	Brevard, N. C.
CLARK, ELLEN MERCER A.B., University of Richmond	Latin	Atlee, Va.
DUBOSE, SAMUEL WILDS A.B., Davidson College; A.M., Duke University; B.D., Union Theological Seminary	Religion	Hillsboro, N. C.
EVANS, ROBERT WELDON A.B., Hendrix College; B.D., Duke University	Religion	Batesville, Ark.

<i>Name</i>	<i>Department</i>	<i>Home Address</i>
McGRIFF, MARY EMILY A.B., Duke University	History	Birmingham, Ala.
*MULDROW, MARY FRANCES A.B., Georgia State College for Women	Romance Languages	Milledgeville, Ga.
ROGOLINO, MARY THERESA A.B., Florida State College for Women	Romance Languages	St. Augustine, Fla.
RUDISILL, DORUS PAUL A.B., Lenoir Rhyne College; A.M., University of South Carolina; B.D., Lutheran Theological Seminary; S.T.M., Hartford Theological Seminary	Religion	Chapel Hill, N. C.
*SMITH, MARY BETTY A.B., Drury College	History	Springfield, Mo.

LABORATORY INSTRUCTORS

FIELD, FRANK HENRY B.S., A.M., Duke University	Chemistry	Cliffside Park, N. J.
KINGSBURY, RALPH NORMAN B.S., Northeastern University	Chemistry	Milton, Mass.
LEVINE, ROBERT A.B., A.M., Dartmouth College	Chemistry	Boston, Mass.
PARKER, MARY ELLEN A.B., Randolph-Macon Woman's College	Chemistry	Roanoke, Va.
VINGIELLO, FRANK ANTHONY B.S. in Chem., Polytechnic Institute of Brooklyn	Chemistry	Brooklyn, N. Y.
WALKER, HOWARD GEORGE, JR. B.S., Duke University	Chemistry	Westfield, N. J.
WISSOW, LENNARD JAY B.S., Pennsylvania State College; A.M., Duke University	Chemistry	Philadelphia, Pa.

* Resigned, January 31, 1945.

THE COLLEGES

GENERAL STATEMENT

Duke University offers in Trinity College, the Woman's College, and the College of Engineering three academic degrees for undergraduate work: Bachelor of Arts, Bachelor of Science, and Bachelor of Science in Civil, Electrical, or Mechanical Engineering.

TRINITY COLLEGE

Trinity College is the undergraduate college of arts and sciences for the men of Duke University and is situated on the West Campus along with the Graduate School of Arts and Sciences, the School of Law, the School of Medicine, the School of Nursing, the School of Forestry, and the Divinity School.

THE WOMAN'S COLLEGE

The Woman's College of Duke University is a college of arts and sciences within the University which provides for the instruction of undergraduate women as Trinity College provides for the instruction of undergraduate men.

THE COLLEGE OF ENGINEERING

Duke University, through the College of Engineering, offers standard four-year courses in civil, electrical, and mechanical engineering, with an aeronautics option for mechanical engineers.

THE LIBRARIES

The library resources of the University total 705,770 volumes, 882,223 manuscript pieces, and 3,000 books on microfilm. Eighty-three foreign and domestic newspapers and 2,969 periodicals are received currently.

The University Library, in which the bulk of the collection is housed, is centrally located on the West Campus. The main Reference and Reading Room on the second floor contains about 5,000 volumes of important reference works and the books on reserve for senior-graduate courses. The Undergraduate Reading Room on the first floor contains a specially selected collection of approximately 2,000 books for general undergraduate reading and reference, together with the books on reserve for undergraduate courses. The Documents Room on the second floor gives students access to the official publications of the federal and state governments. Seniors, honor students, and others undertaking special studies may be admitted to the stacks to facilitate their work. The Chemistry library of 11,178 volumes, the Physics-Mathematics library of 10,522 volumes, the Biology-Forestry library of 30,863 volumes, the College of Engineering library of 8,346 volumes, and the Divinity School library of 36,660 volumes are housed in the buildings in which these subjects are taught

to make them convenient especially to the faculty and students in these fields. The Medical library of 41,579 volumes and the Law library of 76,274 volumes are housed in the Medical and Law buildings respectively.

The Woman's College Library, which is one of the dominant units of the Georgian architecture of the East Campus, contains approximately 62,875 volumes. Among these are the books most constantly needed in the undergraduate work of women students. An attractive feature of the Library is the Booklovers' Room, comfortably furnished, where on open shelves students may find interesting books in various fields. In honor of Mr. James A. Thomas, the Thomas Memorial Room was opened in December, 1942. The decorations and furnishings in this room were provided by Chinese and American friends of Mr. Thomas. It affords a quiet, comfortable place for studying or reading.

Undergraduate students also have free access to the library collections of the Medical and Law Schools.

NAVAL RESERVE OFFICERS' TRAINING CORPS

The primary object of the Naval Reserve Officers' Training Corps is to provide systematic instruction and training in essential naval subjects for a group of selected students so that they may be qualified and available for duties as deck officers in the United States Navy. The work supplements other courses taken in the University.

Admission

Enrollment in the Naval Reserve Officers' Training Corps is entirely voluntary. Selection will be made from those students of the Freshman Class who are enrolled in the V-12 U. S. Navy College Program, after the completion of two semesters of college work under that program. Selection will be based on the academic work and the personality of the candidate.

Outline of Course

The Department of Naval Science and Tactics is an integral part of the University, and the courses in Naval Science and Tactics are on the same level and receive the same form of credit toward graduation as other courses in the University.

The course in Naval Science and Tactics is a five-semester course, beginning at the completion of two semesters of Freshman work. Satisfactory completion of each semester's work is necessary for continuance in the Unit.

The study of navigation and other subjects included as a part of the course requires a basic knowledge of mathematics, including algebra, plane and solid geometry, and plane trigonometry. The two semesters of Freshman work will cover the required mathematics.

Uniforms, Books, and Equipment

Students in the course are furnished complete uniforms by the Navy Department. Students, however, provide themselves such items as collars, white shirts, black socks, and black shoes.

All books and equipment that the student needs in the course are loaned

to him without cost. A deposit of \$10.00 is required of each student to cover lost or damaged equipment. This deposit, or as much of it as remains, will be returned when the student severs his relation with the Unit.

Draft Status

All students enrolled will be enlisted in the U. S. Naval Reserve, will be on active duty, will receive regular Navy pay of grade, and will be furnished housing, board, instruction and medical attention at Government expense. As members of the Naval Reserve they are exempt from the Selective Service and Training Act, and their stay in college is dependent upon satisfactory academic training and good behavior; otherwise they will be sent to sea as apprentice seamen.

ADMISSION TO TRINITY COLLEGE AND THE WOMAN'S COLLEGE

Applicants may qualify for admission to Trinity College or the Woman's College as members of the Freshman Class or as students with advanced standing. Since the enrollment in the two colleges is limited, the Committee on Admissions will select the students who, in its opinion, are best qualified to benefit from the educational advantages which the colleges offer.

APPLICATION FOR ADMISSION

Application for admission to Trinity College should be made to the Secretary of Duke University, Duke Station, Durham, North Carolina, for transmittal to the Council on Admissions. Application for admission to the Woman's College should be made to the Committee on Admissions, College Station, Durham, North Carolina. Forms of application will be sent on request.

GENERAL REQUIREMENTS

Admission to Trinity College and to the Woman's College is dependent upon the ability, attainments, and character of the applicant. Each applicant must see that the Committee on Admissions receives a complete record of his work in secondary school or college, the required medical certificate, and satisfactory evidence of his good character and ability.

SPECIFIC REQUIREMENTS

An applicant for admission to the Freshman Class must present at least fifteen acceptable units of secondary school credit. A unit of credit is allowed for a course of study pursued throughout an academic year at an accredited secondary school, if the course has demanded five recitations a week and the prescribed amount of work has been completed satisfactorily.

1. Twelve units must be in English, foreign language, history and social studies, mathematics, and natural science; and must include:
 - (a) English—3 units.
 - (b) Algebra—1 unit.
 - (c) Plane geometry—1 unit.
2. Three units may be in the subjects listed above or from those in the following table. The units indicate the maximum amount of credit acceptable in each subject:

SUBJECT	UNITS	SUBJECT	UNITS
Agriculture	2	Mechanical Drawing	2
Art	1	Music	1
Commercial Subjects	3	Physical Geography	1
Economics	1	Sociology	1
Household Economics	2	Woodworking, Machine Work	2

Other units offered in subjects not included in this list will be considered for acceptance on the basis of full statements transmitted with the applicant's record from the school recommending him.

ADMISSION BY CERTIFICATE

A graduate of an accredited school, who submits fifteen acceptable units of secondary school subjects, is recommended by his principal, and otherwise meets the requirements of the Admissions Committee, may be admitted without examination. This certificate must be on blanks furnished by the College and signed by the principal of the school in which the applicant completed his course.

ADMISSION BY EXAMINATION

An applicant who presents fifteen acceptable units for admission from a nonaccredited school is required to validate these units by entrance examinations and such other tests as the College may prescribe.

ADMISSION WITH ADVANCED STANDING

A student of good character who has completed satisfactorily at least one full year of college work in an approved college may be admitted with advanced standing. He must have fulfilled the equivalent of the requirements for admission to the Freshman Class, must present official certificates of all work done in other institutions, and have honorable dismissal from each institution previously attended. Credit for work completed will be determined in relation to the curriculum at Trinity College or the Woman's College.

A student enrolling for the Bachelor's degree who transfers from a junior college or from a four-year college not affiliated with the Southern Association, or a similar regional association, is under all circumstances required to continue for at least one semester in Trinity College or in the Woman's College the foreign language he presents for minimum graduation requirements.

A student who has transferred from a junior college or from a four-year college not affiliated with the Southern Association, or a similar regional association, must present laboratory notebooks in all science courses that are offered for advanced credit.

A student admitted with advanced standing will be given an average grade of "C" on the semester hours with which he is credited, provided his grades warrant it. In order to make his provisional classification final, he must pass during his first year of residence not less than the equivalent of four year-courses, with an average grade of "C" or higher.

The maximum amount of credit acceptable from a junior college is sixty semester hours.

No credit is given for work completed by correspondence, and not more than six semester hours of credit are allowed for work done by extension. Any extension work accepted must be specifically approved by the Dean of the College.

ADMISSION FOR SPECIAL WORK

Upon the approval of the Dean, a student of mature age may be admitted for special work in such courses of instruction as he is qualified to take, but not as a candidate for a degree in a regular course unless he meets all requirements for admission.

READMISSION OF FORMER STUDENTS

A student who, following withdrawal from College, desires to return to the College, should apply to the Dean for readmission. If a student has completed during his absence from the College any undergraduate work in another institution of approved standing, he must submit an official transcript of this work, with a statement of honorable dismissal, from that institution.

PRELIMINARY TESTS AND EXAMINATIONS

During the orientation period all Freshmen are given placement tests in chemistry, English, mathematics, and the foreign language they are to continue. On the results of these tests and general ability tests students are assigned to the proper sections of their respective academic subjects. Physical examinations are also given.

REQUIREMENTS FOR DEGREE OF BACHELOR OF ARTS

GENERAL REGULATIONS

The requirements for the degree of Bachelor of Arts are designed to give the students such training in certain fundamental subjects as is essential for intelligent, educated citizens. The requirements also provide the opportunity for as wide an election as possible from courses of study which are both interesting and practically helpful in connection with vocations the students plan later to pursue.

Credit for one hundred and twenty semester hours, on which an average grade of "C" must be made, is required for the degree of Bachelor of Arts in all groups. In addition to these requirements all candidates for the Bachelor of Arts must complete, with an average grade of "C" or better, physical education to the equivalent of six semester hours. In Trinity College the physical education requirement is completed by the end of the Sophomore year; in the Woman's College, by the end of the Junior year.

The Faculty has authorized the groups of studies below for the guidance of students in selecting the work required for graduation. A student is free to choose any group he may desire. The several groups are designed to be of special value in a chosen profession and at the same time to provide a well-balanced course of study. With the approval of the Dean a student may at any time transfer from one group to another. In such transfers, work done in one group and not prescribed in the other will count as general elective credit, but all work prescribed in the new group must be completed before the student can be graduated.

No student is permitted to take less than fourteen semester hours of work without special permission from the Dean; to take more than the normal load of work (fourteen to seventeen semester hours) unless his average grade in the preceding semester is "C" or above; or, under any conditions, to take more than nineteen semester hours of work, exclusive of required physical education.

On or before the date announced for the spring registration every student is required to designate the group in which he plans to graduate and to arrange his program of courses for the ensuing year. All students, when choosing courses, are urged to seek the advice of instructors in whose departments they expect to receive instruction. No course card is valid until it has the approval of the Dean.

SPECIAL REGULATIONS

The following special rules applying to the selection of courses are authorized by the Faculty:

The total amount of work that a student, other than an Honors student, may take in any one department toward the Bachelor of Arts degree is limited to a maximum of thirty-six semester hours; with the exception that a student whose principal work is in the Department of English, Economics, or Romance Languages may be permitted to take additional work in subdepartments not to exceed a total in the department and the subdepartments of fifty-four semester hours.

Candidates for the degree of Bachelor of Arts whose courses of study permit may elect work from the following subjects: engineering, not to exceed eighteen semester hours; forestry, not to exceed eighteen semester hours. The courses elected in these departments must be those approved by the Council on Undergraduate Instruction as appropriate for the Bachelor of Arts degree and published in the *Bulletin of Undergraduate Instruction*. The classification of these courses, as they affect divisions of concentration and restricted electives, is left to the student's major adviser and to the Dean.

No Senior may take for graduation credit any course primarily open to Freshmen; and no Junior may take for graduation credit more than one course primarily open to Freshmen. A list of these courses is published in the *Bulletin* under "Courses of Instruction."

Not more than one course of six or eight semester hours of credit in final fulfillment of the requirements for the degree of Bachelor of Arts in Duke University may be taken in another institution of approved standing, and this course must first be approved by the head of the department concerned and by the Dean.

MINIMUM UNIFORM REQUIREMENTS FOR ALL GROUPS

The following requirements are authorized for all groups:

	S.H.
English 1-2	6
Natural Science	8
Economics, History, or Political Science	6
Religion	6

In addition to the above requirements, at least the third college year of a foreign language must be completed.

English 1-2, 6 s.h.—This requirement is normally met by the completion of English 1 and 2. A Freshman who satisfies the Department of English of his superior ability in composition may substitute, however, another English course for English 1.

Natural Science, 8 s.h.—A student who does not present for entrance an acceptable unit of science must take sixteen semester hours of science for graduation.

Economics, History, or Political Science, 6 s.h.—A student who does not present for entrance two acceptable units of history (exclusive of other social science work) must take history as his required work; otherwise he may fulfill this requirement in any one of the three subjects.

Foreign Language (third college year).—Students who begin their language requirements in college are expected to follow the sequence of courses

laid down by the department whose work they take and can omit only such course or courses as may be approved both by the department and the office of the Dean. If a Freshman presents for entrance four units of Latin, he may satisfy his language requirements by taking either two years of Latin or two years of Greek. In exceptional cases, on the recommendation of the department and with the approval of the Dean, a student who has completed the second college year of a language may satisfy the requirement in language by completing the first college year of another language.

Of these minimum requirements, at least three courses, including English and foreign language, should be taken in the Freshman year, and all of them, except foreign language and religion, by the end of the Sophomore year.

These courses primarily open to Freshmen and the courses that will satisfy the requirements in history, science, and religion are listed under "Courses of Instruction."

GROUPS OF STUDIES FOR THE DEGREE OF BACHELOR OF ARTS

GROUP I

GENERAL

This group is based on the traditional requirement for the degree of Bachelor of Arts. Students who choose it must complete the minimum uniform requirements for graduation; forty-two semester hours in a division of concentration, exclusive of courses open primarily to Freshmen (in the Division of the Natural Sciences a maximum of eight hours of Freshman work is permitted in the forty-two hours mentioned above); twelve semester hours of restricted electives in the other divisions; and free elective work sufficient to complete, with an average grade of "C," the one hundred and twenty semester hours necessary for graduation. The departments of instruction, for purposes of concentration, are grouped in three divisions:

Humanities: English, Fine Arts, German, Greek, Latin, Music, Philosophy, Romance Languages.

Social Science and History: Economics, Political Science, Education, History, Religion, Sociology.

Mathematics, Psychology, and Natural Science: Botany, Chemistry, Geology, Mathematics, Physics, Psychology, Zoology.

The forty-two semester hours in the division of concentration must be distributed as follows: eighteen to twenty-four semester hours in a major department and eighteen to twenty-four semester hours in at least two other departments of the same division with a minimum of six semester hours in each department. The minimum number of hours required by the department for a major shall not include any course open primarily to Freshmen. Introductory courses above the Freshman level are to be counted or not at the discretion of the department concerned.

For purposes of concentration certain courses listed in the same de-

partment are considered as being in different departments; namely, courses in French, Italian, and Spanish. Likewise, courses in economics and business administration are reckoned as being in different departments. Also, a student taking his major work in English literature may count courses in English composition, dramatic technique, or public speaking as part of his related work in the same division.

The twelve semester hours of restricted electives must be taken in one or both of the divisions not chosen for concentration, with a minimum of six semester hours in any one department of these divisions.

Attention is called here to a special regulation governing all groups leading to the Bachelor of Arts degree which limits the amount of work a student, other than an Honors student, may take in any one department to a maximum of thirty-six semester hours, with the proviso that a student whose principal work is in the Department of English, Economics, or Romance Languages is permitted to take additional work in subdepartments not to exceed a total in the department and the subdepartments of fifty-four semester hours.

The remaining hours necessary for graduation, after the minimum uniform requirements, the division of concentration, and the restricted electives are satisfied, are open as free electives.

On or before the date announced for the spring registration every Sophomore in the General Group should designate his division of concentration and his major department, and arrange under the guidance of an instructor in the major department his program of studies for the following year. He should obtain the instructor's written approval of all courses selected in the division of concentration before submitting his program to the Dean for final action. In like manner, upperclassmen will recheck their courses in their divisions of concentration each year with representatives of their major departments.

GROUP II

BUSINESS ADMINISTRATION

This group is designed for students who enter college with the purpose of engaging in some form of business after graduation. The required work consists of the minimum uniform requirements and the courses specified below.

The following arrangement of specified courses is recommended for students electing this group.

A student planning to take the examinations to qualify as a Certified Public Accountant may with the permission of the Department substitute courses in accounting (including Economics 184) for those courses in the following arrangement of courses which are marked with an asterisk.

Freshman Year: Economics 11* (this course is recommended but not required), Mathematics 3-4, or equivalent.

Sophomore Year: Economics 51-52, Economics 57-58, Political Science 61-62.

Junior and Senior Years: Economics 138*, Economics 143, Economics 144*, Economics 153, Economics 171-172 or Economics 105, 158, Economics 181-182, Economics 189*. Three hours of Economics courses shown in Economic Major Group I or II.

In addition to the courses specified above, a student in this group must elect nine semester hours from other courses in the Department.

GROUP III

RELIGION

This group is designed for students who plan to enter the ministry or other religious work as a vocation after graduation. The required work consists of the minimum uniform requirements and the courses specified below.

The following arrangement of specified courses is recommended for students electing this group:

Freshman Year: Religion 1-2, History 1-2.

Sophomore Year: Religion (6 hours), Economics 51-52 or Political Science 61-62, English Literature (6 hours).

Junior Year: Religion (6 hours), Psychology 91, English 151-152.

Senior Year: Religion* (6 hours), Sociology (6 hours), Philosophy (6 hours).

GROUP IV

PRE-MEDICAL

Students qualifying for college graduation in this group must complete, in addition to the minimum uniform requirements, forty-two semester hours in a division of concentration (subject to the regulations of the General Group), twelve semester hours of restricted electives in one or both of the other divisions with at least six semester hours in one department, and certain specific requirements as noted below. These specific requirements may count as part of the divisional concentration (if the division of concentration is the Natural Sciences) or they may count as restricted electives if another division of concentration is chosen. The foreign language should be German or French, preferably the former and including German 107-108.

The normal division of concentration for students electing this group is that of the Natural Sciences, but the student may elect any one of the other two divisions for his divisional concentration. In this case, it may be necessary for him to complete more than one hundred and twenty semester hours for his degree. If, however, the student chooses the Natural Sciences for his division of concentration, he is urged to take as much elective work as possible in the Divisions of the Social Studies and the Humanities.

Completion of English 1 and 2; Chemistry 1-2, 61-70, 151-152; Physics 51-52; and Zoology 1-2 will satisfy the minimum course recommendations of the Association of American Medical Colleges. Many medical schools advise the completion of additional courses in these and other subjects. The pre-medical student should ascertain the requirements of the particular medical school that he expects to attend.

* Not more than six semester hours of electives may be taken in the Department of Religion.

The following arrangement of the courses in science is suggested:

Freshman Year: Chemistry 1-2, Zoology 1-2, Mathematics 7-8, or equivalent.

Sophomore Year: Chemistry 61-70, Physics 51-52.

Junior Year: Chemistry 151-152.

GROUP V

COLLEGE TEACHING

This group is designed for students who plan to do work in a graduate school and teach in college. The required work consists of the minimum uniform requirements and the work specified below.

French and German through the second year of college work.* Since one of these languages may be taken through the third year of college work to satisfy the minimum uniform requirements, only the one not taken thus must be chosen to meet the conditions of this group.

Twenty-four semester hours of work in the major subject, exclusive of work in the subject offered primarily for Freshmen; twelve semester hours of work in related subjects approved by the student's Departmental Adviser; twelve semester hours in education, philosophy, and psychology, or in any one, not including any courses in secondary or elementary school methods.

Elective work, not to be taken in the major department, sufficient to complete the one hundred and twenty semester hours necessary for graduation.

At least twelve semester hours of the work taken in the Senior year must be in courses open only to Seniors and Graduates.

GROUP VI

PUBLIC SCHOOL TEACHING

This group is designed for two classes of students: (a) those who plan to teach in secondary schools; (b) those who plan to teach in elementary schools.

The required work consists of the minimum uniform requirements and the requirements listed under one of the classes below, according to whether the student expects to teach in a secondary school or in an elementary school.

CLASS A: SECONDARY SCHOOL TEACHING

Students in this class are required to take:

Eighteen semester hours in education of which three semester hours may be in general psychology. The work in education must include three semester hours in directed observation and practice teaching, three semester hours in educational psychology, and three semester hours in secondary education.

Six semester hours, three each, in materials and methods, in two fields of high-school teaching.

Work in the subject matter of the two subjects the student intends to

* Greek or Latin may be substituted for either French or German.

teach, sufficient to satisfy the minimum requirements as listed in the table below :

English, twenty-four semester hours, to include the six of required work in composition, six in English literature, and six in American literature.

French, eighteen semester hours, based on the usual two units for admission. German, Spanish, and Greek, the same requirements as for French.

History, eighteen semester hours, including six each in American, ancient and medieval, and modern European history, and six semester hours of economics or political science. It is recommended to prospective teachers of history and related subjects that they take elective work in sociology, geography, and at least a semester each in economics and political science.

Latin, eighteen semester hours based on the traditional four units for admission.

Mathematics, fifteen semester hours.

Music, thirty semester hours.

Physical Education, fifteen semester hours.

Science, thirty semester hours, including elementary courses in biology, chemistry, physics and geography or geology.

A student may prepare to teach only one high-school subject by taking a major of twenty-four semester hours in that subject (physical education excepted) in addition to the general required work in Class A, the required work in education and psychology, and the specifically required work in directed observation and materials and methods in the subject chosen. In physical education in the Woman's College the requirement for a major is thirty semester hours including three or four semester hours each of comparative anatomy and physiology.

It is recommended that the elective work, sufficient to complete the one hundred and twenty semester hours for graduation, be chosen in the two subjects the student is preparing to teach and in the Division of Social Science, provided the total amount of work taken in any department may not exceed the total allowed in Group I.

Students who are preparing to teach are warned to read carefully the certification rules of the state in which they intend to teach and to advise fully with the Dean before electing courses in subjects they are preparing to teach. They are further warned to take their professional courses in the order outlined by the Department of Education, reserving for their Senior year courses in materials and methods and in directed observation and practice teaching.

At least twelve semester hours of the work in the Senior year must be in courses open only to Seniors or to Seniors and Graduates.

CLASS B: ELEMENTARY SCHOOL TEACHING

Students in this class conform to the general requirements of Group I. Education is treated as a major department, and the Social Science Division as the division of concentration. In addition to the general requirements of Group I, the following specific requirements must be met:

	S.H.
English	3 or 6
American History and Government	6 or 9
Geography	6
Physical Education and Hygiene	6

These special requirements are reckoned in each case as a part of the appropriate division of concentration. The student in Class B should take Education 8 in the first semester of his Freshman year and advise with the Department as to an appropriate course for the spring semester. In all other particulars his course follows the General Group for the first year.

The following arrangement of courses is recommended for Freshmen entering the Teaching Group. The work for the following years will be arranged by the Department of Education.

FRESHMAN YEAR

	S.H.
English	6
Foreign Language	6
Science	8
History or elective*	6
Education or elective†	6
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GROUP VII

PRE-LEGAL

This group is designed for students who expect to study law after graduation. The required work consists of the minimum uniform requirements‡ and the courses specified below.

The following arrangement of specified courses is recommended:

Freshman Year: Introductory Course in History (1-2 if taken in the Freshman year or 51-52 if taken thereafter).

Sophomore Year: Economics 51-52, Political Science 61-62.

Junior Year: Economics 143, History 105-106, Psychology 91, and either English 151 or 152.

Senior Year: Six semester hours of Economics from courses approved for Seniors.

The electives should be chosen largely from the work offered by the following departments: Philosophy, Sociology, Economics, History, Psychology, and Political Science. The total work (required and elective) in any one department may not exceed thirty semester hours.

At least twelve semester hours of the electives in the Senior year must be Senior-Graduate courses.

GROUP VIII

SOCIAL SERVICE

This group is designed for students who plan after graduation to pursue professional studies in order to engage in practical social welfare

* History is an alternate with economics or political science in the minimum requirements when the student presents two units of history for admission.

† Students in Class B should take Education 8 the first semester and follow it with the course approved by the Department of Education the second semester; students in Class A follow the same plan or take any of the electives authorized for the General Group.

‡ When there is overlapping, the minimum uniform requirements are accepted as a part of the special requirements in this group.

work, such as family welfare, child welfare, public welfare, probation and parole, and similar forms of neighborhood and community work. The required work consists of the minimum uniform requirements and the courses specified below. Zoology is recommended for the required course in science.

The following arrangement of specified courses is recommended for students electing this group:

Freshman Year: History 1-2.

Sophomore Year: Economics 51-52, Sociology 91-92 or Sociology 101.

Junior Year: Philosophy (6 hours), Political Science (6 hours), Psychology 91, Sociology (6 hours).

Senior Year: Economics (6 hours), Psychology (6 hours), Sociology (6 hours).

The electives should be chosen mainly from history, economics, political science, education, sociology, philosophy, psychology, and religion.

The subjects required for the Junior and Senior years may be transposed according to the courses available in any particular year.

GROUP IX

HONORS

Purpose: Students who have revealed their desire and demonstrated their ability to do a type of intellectual work higher than that normally required for the liberal arts degree may apply to read for Honors during their last two college years. The aim of the Honors studies is to permit qualified undergraduates to attain a knowledge, both comprehensive and intensive, of a particular field, or fields, under conditions most stimulating to individual initiative and independence.

General Rules:

I. A student who has sixty-two semester hours of work to his credit and who has completed the minimum requirements for graduation may apply to read for Honors. A departmental committee may, however, permit students to take as much as twelve hours of the minimum uniform requirements in the Junior and Senior years provided that these are offset by the same number of hours in related subjects taken previously in courses not open primarily to Freshmen.

II. The Departmental Honors Program constitutes the work of the Honors student during the Junior and Senior years. This program shall be the equivalent of sixty semester hours of work.

III. The minimum amount of work that may be taken in the major department shall be the equivalent of twenty-four semester hours, and the maximum shall be the equivalent of thirty-six semester hours.

IV. The related work, which constitutes at least two-fifths of the Honors program, that is, the equivalent of twenty-four semester hours, must be distributed among not less than two departments, unless the departmental committee gives special permission for the student to take his related work in one department.

Departmental Honors: Honors courses are available to qualified students in the following departments: Botany, Chemistry, Economics, Education, English, French, German, Greek, History, Mathematics, Physics, Psychology, Religion, and Zoology.

An undergraduate wishing to qualify for Departmental Honors usually enters the General Group during the Freshman year. At the close of the Sophomore year he may apply to read for Honors in a particular department. The requirements for admission to candidacy for Honors vary in the different departments. The student should consult the special requirements set forth in the "Departmental Honors Program." The Departmental Committee determines the eligibility of the various applicants for Honors reading within the department.

Transfer students from colleges of approved standing may be admitted to candidacy for Honors provided they enter here as Sophomores with high records in their chosen field of work. They should consult by April 15 the Honors Adviser of the Department in which they are interested.

The work required of students in the Departmental Honors Group consists of (1) the minimum uniform requirements; (2) the program of Honors for the Junior and Senior years; and (3) elective work sufficient to complete the semester hours necessary for graduation.

Study in a Departmental Honors course always includes work in regular open courses. In both Junior and Senior years it may, and usually does, also include work under special instruction (seminarial or tutorial) and assignments of independent reading.

All candidates who complete satisfactorily the minimum uniform requirements, a Departmental Honors course, and elective work sufficient to earn the necessary hours for graduation will be recommended by the Departmental Committee to the Dean of the College for graduation with Honors.

For brief outlines of the various plans for Departmental Honors the student should see the section, "Departmental Honors Program," among the offerings of each department listed above. Students are also urged to consult the Honors Adviser of the department in which they are primarily interested. A list of these Advisers follows:

Botany: Miss Addoms
Chemistry: Mr. Vosburgh
Education: Mr. Holton
English: Mr. Irving
French: Mr. Webb
German: Mr. Vollmer

History: Mr. Laprade
Mathematics: Mr. Elliott
Physics: Mr. Hatley
Psychology: Mr. Zener
Religion: Mr. Myers
Zoology: Mr. Johnson

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE

The general regulations governing the requirements for the degree of Bachelor of Science are the same as those for the degree of Bachelor of Arts. Students selecting this group must complete the following course of study:

	S.H.
English 1-2	6
French and German (second college year)	12-24
Mathematics	6
Natural Science	8
Economics, History, or Political Science	6
Religion	6
Major and related work	48
Free electives to make a total of	120

English 1-2, 6 s.h.—A Freshman who satisfies the Department of English of his superior ability in English composition may substitute another English course for English 1-2. A Freshman whose scores in the placement tests are too low to justify his admission into English 1 is required to earn credit for English 1 before he may enter English 1.

French and German.—Bachelor of Science candidates must complete at least the second college year, or equivalent as determined by examination, of both French and German.

Mathematics, 6 s.h.—A candidate for the Bachelor of Science degree must complete Mathematics 7 and 8 or Mathematics 7 and 50 or the equivalent. Mathematics 50 is recommended for students who plan to take Mathematics 51-52. Mathematics 8 is recommended for those who plan not to take Mathematics 51-52. Placement tests in algebra are administered to all entering students planning to take courses in mathematics. Students found deficient in algebra must substitute Mathematics 1 and 2 for Mathematics 7.

Natural Science, 8 s.h.—This requirement can be satisfied by courses in one of the natural sciences, namely, Botany, Chemistry, Geology, Physics, and Zoology. The courses must include laboratory work, and may not be counted as part of the major or related work.

Economics, History, or Political Science, 6 s.h.—A student who does not present for entrance two acceptable units of history (exclusive of other social work) must take a course in history; otherwise he has his choice of Economics, History, or Political Science. The courses that will satisfy this requirement are listed under "Courses of Instruction."

Religion, 6 s.h.—The courses that will satisfy the requirement in Religion are listed in this bulletin under "Courses of Instruction."

Major and Related Work, 48 s.h.—Major and related work consists of forty-eight semester hours in the Division of Natural Sciences. This work must be selected from the Departments of Botany, Chemistry, Geology, Mathematics, Physics, Psychology, and Zoology. The major work consists of not less than twenty-four semester hours in one department, the choice of courses being subject to the approval of the department. The major work does not include courses primarily open to Freshmen. The related work is taken in at least two other departments and is selected subject to the approval of the major department. It may not include more than one course primarily open to Fresh-

men. A minimum of eight semester hours of the total of forty-eight must be in laboratory science. Further information concerning the requirements for the major and related work in the various departments will be found under "Courses of Instruction."

Free Electives.—In addition to the above, the student must elect sufficient courses to complete, with an average grade of "C," the one hundred and twenty semester hours necessary for graduation.

The total amount of work that a student, other than an Honors student, may take in any one department toward the Bachelor of Science degree is limited to a maximum of thirty-six semester hours.

No Senior may take for credit any course primarily open to Freshmen, and no Junior may take for credit more than one course primarily open to Freshmen. A list of these courses is published under "Courses of Instruction."

Not more than one course of six or eight semester hours of credit in final fulfillment of the requirements for the degree of Bachelor of Science in Duke University may be taken in another institution of approved standing, and this course must first be approved by the head of the department concerned and by the Dean.

On or before the date announced for the spring registration every Sophomore in this group should select his major department in the Division of Natural Sciences and arrange under the guidance of an instructor in the major department his program of studies for the following year. He should obtain the instructor's written approval of all courses selected in the division before submitting his program to the Dean for final action. In like manner, upperclassmen will check their courses in the division each year with representatives of their major department.

COMBINED ACADEMIC-PROFESSIONAL COURSES

The provision whereby a Senior may elect the work of the first year in a professional school of the University shall apply solely to eligible students in Trinity College or the Woman's College. The privilege of completing a combined course for the degree is conditioned upon admission to the professional school at the close of the Junior year. A student thus admitted registers as a Senior in the College and as a first-year student in the professional school.

ACADEMIC-LAW COMBINATION

A student who has completed, with an average grade of "C" or higher, ninety-two semester hours of undergraduate work, including the minimum uniform requirements for the degree of Bachelor of Arts and the work of the Junior year in the division of concentration may, with the approval of the Dean of the College, transfer to that school and be eligible for the degree of Bachelor of Arts from Duke University upon the satisfactory completion therein of the work of the first year.

It is understood that this provision shall apply solely to eligible Duke University undergraduates, and that not less than the full first-year's work of the Law School will be acceptable for credit towards the bachelor degree.

No single discipline or program of study can be described as the best preparation for the study of law. There are various methods of approach to legal study, and the students differ with respect to the undergraduate studies by which they profit most in preparing themselves for law school.

Completion of the undergraduate work necessary to qualify for the Academic-Law Combination does not insure admission to the Duke University School of Law, nor impose any restriction whatever upon its freedom in selecting students for admission.

The student who does not desire to avail himself of the Academic-Law Combination above set forth may, nevertheless, enter the Law School when he has satisfactorily completed two* years of academic study and has met the other entrance requirements of that school.

Students wishing information concerning admission to the School of Law are invited to consult with the Dean of that school.

ACADEMIC-FORESTRY COMBINATION

A student who has completed with an average grade of "C" or higher the program of study given below may, with the approval of the Dean of the College, transfer to the School of Forestry and be eligible for the degree of Bachelor of Science from Duke University upon the satisfactory completion of one year's work. It is understood that this provision

* Admission after two years of college work is granted during the period of the war.

shall apply solely to eligible Duke University undergraduates. The professional degree of Master of Forestry may be obtained on the satisfactory completion of an additional year in the School of Forestry.

The program of studies in preparation for admission to the School of Forestry is divided into four parts: (1) a group of studies required of all students; (2) courses required in a selected division of concentration; (3) additional elective courses sufficient to make a total of at least 92 semester hours of credit; and (4) summer field work in surveying and forest mensuration as described below.

The studies required of all students, of which the first four, together with six semester hours of a language, should ordinarily be taken in the Freshman year, are as follows:

	S.H.
Botany 1-2	8
Chemistry 1-2	8
English 1-2	6
Engineering Drawing 1-2	4
Modern Foreign Language*	12-18
Mathematics 7-8	6
Physics 1-2	8
Economics 51-52	6
Geology 51	4

At the end of the Freshman year each student shall select a division of concentration. One of the following programs of concentration is recommended:

Botany. Botany 51, 151, 156, one additional course in Botany, and Zoology 1. Chemistry. Chemistry 61, 70, and 151-152; and Botany 151.

Economics. Economics 57-58, two additional semester courses in economics, and Political Science 61-62.

A student who does not select one of the above programs must complete the work of the Junior year in a division of concentration.

Summer field work is required of all students in the School of Forestry. This program of 12 weeks, preferably to be taken upon completion of the Junior year, includes Civil Engineering S110 (Plane Surveying), 3 s.h.; Forestry S150 (Forest Surveying), .5 s.h.; and Forestry S151 (Forest Mensuration), 4 s.h.

Completion of the first three years of work toward the Bachelor of Science degree does not insure admission to the Duke University School of Forestry, nor impose any restriction whatever upon its freedom in selecting students for admission.

Students wishing information concerning admission to the School of Forestry are invited to consult with the Dean of that School.

* The requirement is the same as for the Degree of Bachelor of Science, except that Spanish may be substituted for French.

COURSES OF INSTRUCTION, TRINITY COLLEGE AND THE WOMAN'S COLLEGE

Note: Courses primarily for Freshmen are numbered from 1 to 49; those primarily for Sophomores are numbered from 50 to 99; those primarily for Juniors and Seniors from 100 to 199; those primarily for Seniors and Graduates from 200 to 299. The amount of credit for each course is given in semester hours following the description of the course.

The designation (w) or (E) indicates that the course is to be given on the West Campus or on the East Campus. The designation E means Engineering; L, Law; DS, Divinity School. When this designation precedes a course number, the course is not approved for graduate credit.*

Odd-numbered courses are offered in the fall semester, and even-numbered courses are offered in the spring semester. Double numbers indicate that the course is a year course and must normally be continued throughout the year if credit is received. A student must secure written permission from the instructor in order to receive credit for either semester of a year-course.

COURSES OPEN PRIMARILY TO FRESHMEN

Art 1-2	History 1-2
Botany 1-2	Latin 1-2-3, 4, 15, 16, 41, 42
Chemistry 1-2, 3-4	Mathematics 1, 2, 3-4, 7, 8, 9-10, 15
Economics 11	Music 11-12
Education 1, 4, 6, 8	Philosophy 48
English 1-2	Physics 1-2
French 1-2, 3-4	Political Science 21-22
German 1-2, 3-4	Religion 1-2
Greek 15	Spanish 1-2, 3-4
Health Education 41	Zoology 1-2

AESTHETICS, ART, AND MUSIC

PROFESSOR KATHARINE GILBERT, CHAIRMAN; ASSISTANT PROFESSOR SUNDERLAND, DIRECTOR OF UNDERGRADUATE STUDIES IN ART; MISS AVERILL, SUPERVISOR OF FRESHMAN INSTRUCTION IN ART; ASSISTANT PROFESSORS BRUINSMA AND HALL; MISS LEIGHTON, VISITING LECTURER IN ART; MESSRS. HULL AND BONE

AESTHETICS

FOR SENIORS AND GRADUATES

201-202. The Philosophy of Art.—Study of the various phases of the aesthetic experience and forms of beauty with analysis of examples. Particular attention will be given to recent writers on aesthetics. **6 s.h. (E)**

[Not offered in 1945-46]

PROFESSOR GILBERT

213-214. History of Aesthetics.—The tracing of the historical solutions of traditional problems, such as the nature of imitation, symbolism, the ugly, the sublime, and the comic; the relation of art to nature, to morals, and to economics; the relation of the particular arts to each other, the standard of taste. **6 s.h. (E)**

PROFESSOR GILBERT

ART

1-2. History of Art.—The survey course for Freshmen is designed to help the new student in relating the different manifestations of art in each period to the civilization which produced them. **6 s.h. (E)** MISS AVERILL

* Because of wartime changes in the program of the University the designation E and W are more likely to be an accurate record for the last academic year than a guide for 1945-46.

51-52. History of Art.—The survey course for upperclassmen treats each art as a unit, relating it to its background and its companion arts wherever possible, but leaving many of the problems of correlation to the initiative of the student. Not open to Freshmen or to students who have had course 1-2. *Credit for a single semester will be given only to students electing it during their last semester as undergraduates.* 6 s.h. (E) MISS AVERILL

53-54. Theory of Representation and Design.—A consideration of the general theory of tone relations, of the different modes of representation, and the theory of design. The course aims to give a thorough understanding of the principles governing the art of drawing and painting as practiced in the past and at the present time. One lecture and four laboratory hours. *Open only to students who are enrolled in, or have already completed, a year-course in the Department.* 6 s.h. (E) MISS LEIGHTON

55-56. Laboratory in Design.—Training in the planning and execution of designs for particular purposes and places, as for wall spaces, book covers, illustrations, etc. *Open only to students who are enrolled in, or have already completed, a year-course in the Department and after consultation with the instructor. Credit may be given for a single term but not for the second without the first.* 1 semester hour credit for 3 laboratory hours. MISS LEIGHTON

94. (Old number, 93) American Art.—A study of the development of the Arts and Crafts of North America from the Colonial Period to the present day. The course will consider the formation of the cultural tradition of the United States in architecture, sculpture, and painting, with some reference to the minor arts of furniture, silver, and glass. 3 s.h. (E) MISS AVERILL

101. Mediaeval Architecture.—A survey of Christian architecture in the Near East and Eastern and Western Europe from the beginnings of the mediaeval style in the late classic period to its disintegration in the fifteenth century. Open without prerequisite to Seniors and Juniors, and to Sophomores recommended by the Dean. 3 s.h. (E) ASSISTANT PROFESSOR SUNDERLAND

102. (Old number, 121) Mediaeval Painting and Sculpture.—A study of painting and sculpture in Western Europe from the late classic period through the fourteenth century. Open without prerequisite to Seniors and Juniors, and to Sophomores recommended by the Dean. 3 s.h. (E)

ASSISTANT PROFESSOR SUNDERLAND

103. Renaissance and Baroque Architecture: Italy.—A study of architecture in Italy from Brunelleschi to Bernini, developed through the works of individual architects and their schools. Open without prerequisite to Seniors and Juniors, and to Sophomores recommended by the Dean. 3 s.h. (E)

ASSISTANT PROFESSORS HALL AND SUNDERLAND

104. Renaissance and Baroque Architecture: Spain and the North.—An inquiry into the extension of Italian Renaissance and Baroque influence in architecture, and its modification under local conditions elsewhere in Europe. Prerequisite: 1-2 or 51. 3 s.h. (E)

ASSISTANT PROFESSOR HALL

[Not offered in 1945-46]

105. European Architecture since 1700.—An analysis of the sources of contemporary European architecture in the historic revival styles and counter-revolts, technical invention and new structural materials, industrial expansion, and social planning. Open without prerequisite to Seniors and Juniors, and to Sophomores recommended by the Dean. 3 s.h. (E)

ASSISTANT PROFESSORS HALL AND SUNDERLAND

[Not offered in 1945-46]

106. **Architecture of the Americas.**—A study of building in the Western Hemisphere from the pre-Columbian cultures to the present, with emphasis on the architecture of the United States since the Revolution. Prerequisite: 1-2 or 51. 3 s.h. (E)
ASSISTANT PROFESSOR HALL
[Not offered in 1945-46]

110. (Old number, 120) **English Architecture.**—A survey of architecture in Great Britain from the Roman occupation to the present. Prerequisite: 1-2 or 51. 3 s.h. (E)
ASSISTANT PROFESSOR HALL
[Not offered in 1945-46]

123. (Old number, 107) **Renaissance Painting and Sculpture: Italy.**—A study of Italian painting and sculpture, mainly in Florence, from the end of the fourteenth through the fifteenth century. Open without prerequisite to Seniors and Juniors, and to Sophomores recommended by the Dean. 3 s.h. (E)
ASSISTANT PROFESSOR SUNDERLAND

124. (Old number, 109) **Baroque Painting.**—An analysis of the character and tendencies of seventeenth-century painting in Italy. Open without prerequisite to Seniors and Juniors, and to Sophomores recommended by the Dean. 3 s.h. (E)
ASSISTANT PROFESSOR SUNDERLAND

125. (Old number, 108) **Renaissance Painting and Sculpture: The North.**—A study of painting and sculpture in the Netherlands in the fifteenth and sixteenth centuries. Open without prerequisite to Seniors and Juniors, and to Sophomores recommended by the Dean. 3 s.h. (E)
ASSISTANT PROFESSOR SUNDERLAND
[Not offered in 1945-46]

130. (Old number, 110) **Painting since 1700.**—An investigation of the development of painting from the eighteenth century through Picasso. Open without prerequisite to Seniors and Juniors, and to Sophomores recommended by the Dean. 3 s.h. (E)
ASSISTANT PROFESSOR SUNDERLAND

COURSES OFFERED IN OTHER DEPARTMENTS ACCREDITED IN THIS DEPARTMENT

Greek 141-142. Greek Art.

Greek 247-248. Greek Archaeology.

Psychology 202. Psychology of Aesthetics.

DEPARTMENTAL MAJOR

Prerequisites: 1-2 or 51-52.

Major Requirements: 53-54, and eighteen hours in courses chosen from the departmental offerings, or from courses in other departments accredited in this Department.

MUSIC

THEORY

11-12. **Fundamentals of Music.**—The elements of harmony, rhythm, and form. The visual and aural recognition of scales, intervals, triads, and seventh chords, and their functions in relation to the system of tonality. Harmonization of melodies; development of rhythmic discrimination. A general background for advanced courses in the Department. Students will meet with the instructor in small groups an additional hour each week. Two sections throughout the year. 6 s.h. (E)
MR. BONE

73-74. (Old number, 111-112) **Harmony.**—The principles of composition from the standpoint of the composer. Proficiency in harmonization of melodies, modulation, ornamentation, and original work in the smaller forms is required. Continuation of aural training. Prerequisite: Music 11-12. 6 s.h. (E)
MR. HULL

113-114. Polyphonic Composition.—Composition in the Gregorian plain song, the modal counterpoint of the sixteenth century, the tonal counterpoint of the early eighteenth century, and the polyphony of the late nineteenth century and of the modern period. Various polyphonic forms are used with especial attention to canon and fugue. Works of Palestrina, Purcell, Bach, Brahms, and others are studied as patterns for composition. Prerequisite: Music 11-12. 6 s.h. MR. HULL

[Not offered in 1945-46]

115-116. (Old number, 71-72) Analysis of Form.—The evolution of the polyphonic and homophonic forms from the Middle Ages to modern times. The functions of phrases, sentences, periods, in the construction of various harmonic forms. Detailed analysis of representative works. Prerequisite: Music 11-12. 6 s.h. (E) MR. HULL

121-122. Orchestration and Conducting.—The history, technical possibilities, and orchestral use of the instruments of the modern orchestra. Instrumental and some vocal scores will be studied and arrangements made by the class. One laboratory period a week will be devoted to actual participation in or observation of the orchestra. Prerequisite: Music 11-12 or consent of the instructor. 6 s.h. (E) MR. HULL

HISTORY AND CRITICISM

81-82. Introduction to Musical Literature.—An historical survey of the evolution of music from ancient times to the present. An elementary study of the basic principles of form and of musical aesthetics to serve as a basis of criticism. 6 s.h. (E) MR. HULL

Either semester may be taken for credit without the other.

131-132. Symphonic Literature.—The historical background and development of music for the orchestra. A critical and analytical study of orchestral suites, overtures, concerti, symphonies, and symphonic poems from early instrumental combinations of the seventeenth century to the present. Prerequisite: Music 81-82 or 11-12, or consent of instructor. 6 s.h. (E) MR. BONE

Either semester may be taken for credit without the other.

141-142. Choral Literature.—A survey of choral styles of the Renaissance, Baroque, Classic-Romantic, and Modern periods. A critical analysis of representative sacred and secular forms such as oratorios, passions, masses, cantatas, anthems, laudes, motets, madrigals, ballets, chansons, glees, rounds, etc. Prerequisite: Music 81-82 or 11-12, or consent of the instructor. 6 s.h. (E) MR. BONE

Either semester may be taken for credit without the other.

MUSIC EDUCATION

101. Vocal Methods.—A study of materials and methods of teaching vocal music in public schools. Treatment of the child voice, rote singing, chord singing, voice testing, balance, organization, and supervision. Observation of work done in the public schools. High-school glee club literature. Prerequisite: Music 11-12. 3 s.h. (E) MR. BONE

102. Instrumental Methods.—A study of materials and methods of teaching orchestral instruments, organization, supervision. Observation of work in the public schools. Literature for band and orchestra. Prerequisite: Music 11-12. 3 s.h. (E) MR. BONE

151-152. Fundamentals of Music for Education Students.—Primarily designed for students who desire to qualify for the State Teaching Certificate. The elements of harmony, rhythm, form, and a study of materials and methods of music teaching in the first eight grades. Not open to students who have had Music 11-12. 6 s.h. (E) MR. BONE

APPLIED MUSIC

Instruction in organ, piano, violin, viola, woodwind and brass instruments, and voice is available to Duke University students. Membership in the Chapel Choir, the Glee Club, Band, and Symphony Orchestra is open to those who can qualify.

Organ

Piano

Violin and Viola.....Mr. Robert Hull

Vocal Ensembles.....Mr. and Mrs. J. Foster Barnes

Orchestra and Chamber Music.....Mr. Robert Hull

Woodwind and Brass Instruments.....Mr. Allan Bone

Band.....Mr. Allan Bone

DEPARTMENTAL MAJOR

In Music Theory:

Prerequisite: Music 11-12.

Major Requirements: Music 73-74, 81-82, 115-116, and six semester hours of general music electives.

In Music History:

Prerequisite: Music 11-12.

Major Requirements: Music 81-82, 131-132, 141-142, and six semester hours of general music electives.

In Music Education:

The Department of Music has set up the following minimum requirements within the thirty hours of credit required by the North Carolina Department of Public Instruction for the Music Teaching Certificate: Music 11-12, 6 s.h.; Music 81-82, 6 s.h.; Music 101 or 102, 3 s.h.; Music 73-74 or 113-114, 6 s.h. music electives, 9 s.h.

Each candidate must demonstrate his ability to play simple accompaniments and hymns at sight, and must be a member in good standing of at least one University musical organization (Band, Orchestra, Choir, or Glee Club) for a minimum of two years.

The major requirements above are in addition to the professional requirements of the North Carolina Department of Public Instruction which are common to all certificates. This certificate qualifies a person for both high-school and elementary school teaching.

For required Education courses refer to the Department of Education.

BOTANY

PROFESSOR BLOMQUIST, CHAIRMAN; ASSISTANT PROFESSOR OOSTING, DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR ANDERSON, SUPERVISOR OF FRESHMAN INSTRUCTION; ASSOCIATE PROFESSOR ADDOMS, SUPERVISOR OF FRESHMAN INSTRUCTION (WOMAN'S COLLEGE); PROFESSORS BEAL AND WOLF; ASSOCIATE PROFESSORS HARRAR AND KRAMER; ASSISTANT PROFESSOR PERRY; AND ASSISTANTS

1. **General Botany.**—An introduction to the structure and life-processes of seed plants and the environmental factors influencing their distribution. Laboratory, discussions, and field trips. Three two-hour periods. 4 s.h. (w & e) STAFF

2. **General Botany.**—A survey of the plant kingdom with emphasis on reproduction, and an introduction to identification. Three two-hour periods. Prerequisite: Botany 1. 4 s.h. (w & e) STAFF

51. Culture and Propagation of Plants.—Experimental studies of the processes involved in growth, and the application of this knowledge to the selection, growth, and propagation of plants. Prerequisite: one year of botany. 4 s.h. (E) ASSOCIATE PROFESSOR ADDOMS

52. Plant Identification.—Practice in the identification of local plants, especially flowering plants, and a study of the principles and rules underlying plant classification. Laboratory, lectures, and field trips. Prerequisite: one year of botany. 4 s.h. (w) PROFESSOR BLOMQUIST

55. Morphology and Anatomy of Vascular Plants.—A comparative study of representative ferns and seed plants, including vegetative and reproductive structures. Prerequisite: one year of botany. 4 s.h. (w) ASSISTANT PROFESSOR OOSTING

101. Principles of Heredity.—The basic principles of heredity and their significance. Lectures, three hours; laboratory, two hours; conference (attendance optional), one hour. Laboratory work includes experimental breeding of the fruit fly. May be taken as a lecture course without laboratory. Prerequisite: one (high-school or college) course in biology, botany, or zoology. High-school or college algebra recommended. 3 or 4 s.h. (w) ASSISTANT PROFESSOR PERRY

103. General Bacteriology.—Prerequisite: one year of botany or zoology, or equivalent. 4 s.h. (w), second and third semester; (E), *second semester*. PROFESSOR WOLF

104. The Structure and Identification of Lower Plants.—A study of representative examples of the more important groups of algae, fungi, mosses and liverworts, including collection, identification and classification of common forms. Offered in alternate years. Prerequisite: one year of botany. 4 s.h. (w) PROFESSOR BLOMQUIST

151. Introductory Plant Physiology.—The principal physiological processes of plants, including water relations, synthesis and use of foods, and growth phenomena. Prerequisite: Botany 1, 2 or equivalent; one year of chemistry recommended. 4 s.h. (w) ASSOCIATE PROFESSOR KRAMER

156. Plant Ecology.—The principal factors affecting plants and plant communities as they exist in different environments. Laboratory, lectures, and field trips. Prerequisites: Botany 1, 2 and 52, or equivalent. 4 s.h. (w) ASSISTANT PROFESSOR OOSTING

202. Genetics.—The principles of heredity, their cytological basis, and their bearing on other fields of biology. Laboratory work involves experimental breeding of the fruit fly and interpretation of data from the breeding of plants. Offered in alternate years. Prerequisites: one year of botany or zoology, or equivalent, and college algebra. 4 s.h. (w) ASSISTANT PROFESSOR PERRY

203. Plant Cytology.—A study of the structure and organization of plant cells in relation to growth, reproduction, and especially heredity. Offered in alternate years. Prerequisite: one year of botany. 4 s.h. (w) [Not offered in 1945-46] ASSISTANT PROFESSOR ANDERSON

204. Advanced Plant Anatomy.—The structure of vegetative and reproductive organs of seed plants, including a consideration of seedling anatomy. Specific reference is made to plants of economic importance. Offered in alternate years. Prerequisite: Botany 55 or equivalent. 4 s.h. (w) ASSOCIATE PROFESSOR ADDOMS

216. Botanical Microtechnique.—Studies in methods of preparing temporary and permanent microscopical slides; theory of staining; the use of the microscope, especially microscopical measurements; drawing, and photomicrography, botanical photography, and lantern slides. Prerequisite: two semesters of botany. 4 s.h. (w) ASSOCIATE PROFESSOR ADDOMS

221. **Structure and Classification of Fungi.**—Prerequisite: two semesters of botany. 4 s.h. (w) PROFESSOR WOLF

225-226. **Special Problems.**—Students with adequate training may do special work in the following fields:

a. **Bacteriology, Mycology, and Plant Pathology.** PROFESSOR WOLF

b. **Cytology.** ASSISTANT PROFESSOR ANDERSON
[Not offered in 1945-46]

c. **Ecology.** ASSISTANT PROFESSOR OOSTING

d. **Genetics.** ASSISTANT PROFESSOR PERRY

e. **Morphology and Anatomy of Higher Groups.**
ASSOCIATE PROFESSOR ADDOMS AND ASSISTANT PROFESSOR OOSTING

f. **Morphology and Taxonomy of Lower Groups.** PROFESSOR BLOMQUIST

g. **Physiology.** ASSOCIATE PROFESSORS ADDOMS AND KRAMER

h. **Plant Microchemistry.** ASSOCIATE PROFESSOR ADDOMS

i. **Taxonomy of Higher Groups.** PROFESSOR BLOMQUIST

252. **Advanced Plant Physiology.**—The physicochemical processes and conditions underlying the physiological processes of plants. Prerequisite: Botany 151 or equivalent; organic chemistry recommended. 4 s.h. (w)
ASSOCIATE PROFESSOR KRAMER

255. **Advanced Taxonomy.**—A study of the historical background of plant taxonomy, modern concepts and systems of classification, nomenclatorial problems and the taxonomy of specialized groups. Prerequisite: two years of botany, including Botany 52 or equivalent. 4 s.h. (w) PROFESSOR BLOMQUIST

256. **Field Ecology.**—An ecological survey of local vegetation, including theory and practice in the use of instruments for precise habitat studies, and analysis of community and successional relationships. Offered in alternate years. Prerequisites: Botany 1, 2, and 52 or equivalent. 4 s.h. (w)
ASSISTANT PROFESSOR OOSTING

FOREST BOTANY

224. **Forest Pathology.**—Special reference to diseases of forest trees. Prerequisites: Botany 1, 2. 3 or 4 s.h. (w) PROFESSOR WOLF

253-254. **Dendrology.**—Nomenclature, classification, and identification of woody plants with special reference to species indigenous to southeastern United States and other important forest regions of temperate North America. Laboratory and field work. Prerequisite: one year of botany. 4 s.h. (w)
PROFESSOR BEAL

Related courses which may be counted toward a major in botany. Zoology 110. Introduction to Genetics. 2 s.h. (w) ASSISTANT PROFESSOR JOHNSON

NAVY V-12 COURSES

*B1 and B2. **Biology I and Biology II.**—Two lecture-recitation periods and two laboratory periods per week. 8 s.h.

* B1 and B2 may be substituted for Botany 1-2 or Zoology 1-2.

DEPARTMENTAL MAJOR

Prerequisites: Botany 1 and 2.

Major Requirements: A minimum of twenty-one hours of work including courses 52, 55, and 104. The remaining hours may be selected from any other courses in the Department for which the student is eligible, subject to the approval of the Departmental Adviser.

DEPARTMENTAL HONORS PROGRAM

I. *Prerequisites:* Botany 1-2. A year course in each of three other sciences acceptable to the Departmental Committee. Some of these may be taken concurrently with the Honors work.

II. *Honors Work:*

a. Botany.

1. Scheduled courses. At least five courses (18-20 semester hours) beyond Botany 1-2.
2. Reading courses and problems, chiefly in the Senior year. Nine semester hours. In addition to scheduled courses, each Honors student will take reading courses in such fields as History of Botany and Theories of Biology; or he may take reading courses in special fields; or he may undertake a special problem; or he may carry on both reading and a problem. This work will count as nine semester hours and will extend through a year at least. The student will report to his Adviser regularly for conference on this work. He may be asked to prepare written reports on the reading courses, and he must make a report on his problem.

b. Philosophy—Six semester hours.

c. Electives in Botany or in other departments, subject to the approval of the Departmental Committee.

III. *General Honors Examination:* In the spring semester of the Senior year, each student must pass a general examination on the entire field of his Honors work. The Examining Committee consists of the Departmental Committee and such Advisers as have been concerned with his Honors work. The student must present a written report upon his problem and such written reports upon his reading as may be required, before he is permitted to take the general examination.

CHEMISTRY

PROFESSOR GROSS, CHAIRMAN; PROFESSOR VOSBURGH, DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR HILL, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS BIGELOW, LONDON, AND WILSON; ASSOCIATE PROFESSORS HAUSER AND SAYLOR; ASSISTANT PROFESSORS BRADSHER, BROWN, AND HOBBS; DR. BRESLOW; MR. MANES; AND ASSISTANTS

1-2. *General Inorganic Chemistry.*—Lectures, recitations, and laboratory work on the elementary principles of chemistry and on the occurrence, preparation, properties, and uses of the elements and their compounds. It is desirable, though not required, that students taking this course shall have taken elementary physics either in high school or in college. One lecture, two recitations, and three laboratory hours, throughout the year. 8 s.h. (w & e)

ASSISTANT PROFESSOR HILL WITH PROFESSOR WILSON; ASSOCIATE PROFESSOR SAYLOR; ASSISTANT PROFESSORS BRADSHER, BROWN AND HOBBS; DR. BRESLOW; MR. MANES; AND ASSISTANTS

61. Qualitative Analysis.—A study of the reactions of electrolytes in solution as applied to the qualitative analysis of mixtures of inorganic compounds. One lecture, one recitation, and six laboratory hours. Prerequisites: Chemistry 1-2 or 3-4 and algebra. **4 s.h. (w)**

ASSOCIATE PROFESSOR SAYLOR; PROFESSOR VOSBURGH;
ASSISTANT PROFESSOR HOBBS; AND ASSISTANTS

70. Quantitative Analysis.—A study of the theory and technique of inorganic gravimetric and volumetric analysis. One lecture, one recitation, and six laboratory hours. Prerequisite: Chemistry 61. Analytic geometry and college physics are desirable but not required. **4 s.h. (w)**

ASSOCIATE PROFESSOR SAYLOR; PROFESSOR VOSBURGH;
ASSISTANT PROFESSOR HOBBS; AND ASSISTANTS

131-132. Advanced Quantitative Analysis.—Laboratory exercises in the quantitative analysis of complex materials and in physicochemical measurements, such as potentiometric titration, pH measurements, photometric methods of analysis, and other instrumental methods. Six laboratory hours. Prerequisites: Chemistry 70 and Physics 51-52 or equivalent. **4 s.h. (w)**

PROFESSOR VOSBURGH AND ASSOCIATE PROFESSOR SAYLOR

135. Theory of Analytical Chemistry.—The application of chemical theory to analytical processes, supplementing Chemistry 70. Prerequisites: Chemistry 70 and Chemistry 131; the latter may be taken concurrently. **1 s.h. (E)**

PROFESSOR VOSBURGH

151-152. Organic Chemistry.—An introduction to the study of the compounds of carbon. Both the aliphatic and the aromatic series are dealt with and the lectures are illustrated by selected laboratory experiments. Two lectures, one recitation, and three laboratory hours. Prerequisites: Chemistry 61 and 70. Course 151 is prerequisite for 152. **8 s.h. (w)**

PROFESSOR BIGELOW; ASSOCIATE PROFESSOR HAUSER; ASSISTANT
PROFESSORS BRADSHER AND BROWN; AND ASSISTANTS

153-154. Intermediate Chemistry Laboratory.—Special laboratory exercises of a more advanced nature than given in courses 70 and 151-152. Required of candidates for Honors in chemistry and for the B.S. degree with major work in chemistry and open to others with special permission of the Department. **2 or 4 s.h. (w)**

PROFESSOR BIGELOW AND OTHER MEMBERS OF THE STAFF

155-156. Organic Chemistry.—A shorter introduction to the compounds of carbon than Chemistry 151-152. Two lectures or recitations and three laboratory hours. Prerequisites: Chemistry 61 and 70. **6 s.h. (w)**

PROFESSOR BIGELOW; ASSOCIATE PROFESSOR HAUSER; ASSISTANT
PROFESSORS BRADSHER AND BROWN; AND ASSISTANTS

[Not offered in 1945-46]

173-74. Honors Seminar.—One hour a week discussion based on assigned reading. Required of all candidates for Honors in chemistry in both Junior and Senior years. **2 s.h. (w)**

PROFESSOR VOSBURGH

[Not offered in 1945-46]

215-216. Advanced Inorganic Chemistry.—A study of modern theories of valence and molecular structure; also of inorganic compounds, particularly the less common types, the colloidal state of matter and the phase rule, illustrated by suitable laboratory preparations. Prerequisites: Chemistry 70 and 151-152. Chemistry 261-262, Physics 59-60 or 213-214, and ability to read German are desirable. **6 s.h. (w)** PROFESSOR VOSBURGH AND ASSISTANT PROFESSOR HILL

233-234. Instrumental Analysis.—Experiments in the use of various physical measuring instruments in chemical analysis. One lecture and three laboratory hours. Prerequisites: Chemistry 70 and 261-262; the latter may be taken concurrently. 4 s.h. (w)

ASSISTANT PROFESSOR HOBBS; PROFESSOR VOSBURGH;
AND ASSOCIATE PROFESSOR SAYLOR

236. Theory of Analytical Chemistry.—A study of such topics as precision and errors, theories of precipitation and titration, oxidation and reduction, and others, illustrated by typical analytical methods, including some physico-chemical methods. One lecture. Prerequisites: Chemistry 70 and 261-262. 1 s.h. (w)

PROFESSOR VOSBURGH

241. Physiological Chemistry.—A study of the chemistry of human physiology. Clinical aspects of the subject are treated with reference to the need of prospective medical students. Two recitations and six laboratory hours. Prerequisites: Chemistry 70 and 151-152. Course 261-262 is desirable though not required. 4 s.h. (w)

PROFESSOR WILSON AND ASSISTANT

242. Metabolism.—Open to students who have completed course 241 or its equivalent, and who have a reading knowledge of German. Lectures and collateral reading deal with the probable fate of foodstuffs in the body, the nitrogen balance, energy requirement, nutritive ratios, vital factors, and ductless glands. The laboratory work consists mainly of blood analysis under both normal and pathological conditions. The laboratory or lectures may be taken separately. Two lectures, credit 2 s.h., and 6 laboratory hours, credit 2 s.h. 4 s.h. (w)

PROFESSOR WILSON AND ASSISTANT

253-254. Advanced Organic Chemistry.—A continuation of Chemistry 151-152, including discussion of the theories of organic chemistry. The laboratory work will include qualitative organic analysis, together with preparations of the more difficult type, requiring reference to the original literature. Two lectures and three or six laboratory hours. Prerequisites: Chemistry 151-152 or equivalent and a reading knowledge of German. 6 or 8 s.h. (w)

PROFESSOR BIGELOW; ASSOCIATE PROFESSOR HAUSER;
AND ASSISTANT PROFESSOR BROWN

261-262. Physical Chemistry.—Fundamentals of general theoretical chemistry illustrated by selected laboratory experiments. Two recitations and three laboratory hours. Prerequisites: Chemistry 70, 151-152, Physics 1-2, and Mathematics 51-52 or equivalent. 6 s.h. (w)

PROFESSOR GROSS; ASSOCIATE PROFESSOR SAYLOR;
AND ASSISTANT PROFESSOR HOBBS

265-266. Chemical Physics, Statistical Theory, Principles and Applications.—General introduction to statistical methods and applications to chemical problems; solution theory, reaction velocity, changes of state, quantum statistics, and the metallic state. Undergraduates are admitted to this course only by permission of the Director of Undergraduate Studies. Lectures, conferences, and assigned problems. 8 s.h. (w)

PROFESSOR LONDON

267-268. Chemical Physics. Theoretical Aspects of Atomic and Molecular Structure.—Theories of the chemical bond; atomic and molecular forces. Undergraduates are admitted to this course only by permission of the Director of Undergraduate Studies. Lectures, conferences, and assigned problems. 8 s.h. (w)

PROFESSOR LONDON

271. Introduction to Research.—Lectures on the use of chemical literature, research methods, recording and publication of results, preparation of theses, and other topics. One lecture. 1 s.h. (w)

PROFESSORS BIGELOW, GROSS, AND VOSBURGH

273-274. Seminar.—Required of all graduate students in chemistry. One hour a week discussion. 2 s.h. (w)

PROFESSORS BIGELOW, GROSS AND VOSBURGH; ASSOCIATE PROFESSORS HAUSER AND SAYLOR; ASSISTANT PROFESSORS BRADSHER, BROWN, HILL AND HOBBS

275-276. Research.—The aim of this course is to give instruction in methods used in the investigation of original problems. It is open to Seniors who have had course 70, 151-152, and who are taking 261-262. Nine hours a week and conferences. 3 or 6 s.h. (w)

PROFESSORS BIGELOW, GROSS, LONDON, VOSBURGH AND WILSON; ASSOCIATE PROFESSORS HAUSER AND SAYLOR; ASSISTANT PROFESSORS BRADSHER, BROWN, HILL AND HOBBS

NAVY V-12 COURSES

C1-C2. General Inorganic Chemistry.—May be substituted for Chemistry 1-2. 8 s.h.

C1a-C2a and C6. General Inorganic Chemistry and Engineering Materials.—May be substituted for Chemistry 1-2. 8 s.h.

C3. Quantative Analysis.—May be substituted for Chemistry 70. Prerequisite: Chemistry 2 or C2. 4 s.h.

C4-C5. Organic Chemistry.—May be substituted for Chemistry 151-152. Prerequisite: Chemistry 70 or C3. 8 s.h.

DEPARTMENTAL MAJOR

A. For the degree of A.B.

Prerequisites: Chemistry 1-2, Mathematics 7-8 (or equivalent).

Major Requirements: Chemistry 61-70, 151-152 and 261-262. With the permission of the Department other chemistry courses giving a total of not less than 6 s.h. credit may be substituted for Chemistry 261-262.

B. For the degree of B.S.

Prerequisites: Chemistry 1-2, Mathematics 7-50 (or equivalent).

Major Requirements: Chemistry 61-70, 131-132, 151-152, 153-154, 261-262. The required work in the Science Division must include Mathematics 51-52 and Physics 51-52 (or equivalent).

DEPARTMENTAL HONORS PROGRAM*

Prerequisites: Chemistry 61-70; Mathematics, 6 s.h., and Physics 51-52 or equivalent.

Honors Program: Chemistry 131-132, 151-152, 153-154, 173-174, 261-262, and 275-276; Mathematics through integral calculus; Physics, Botany, Geology, or Zoology, 6 s.h.; electives, subject to the approval of the Departmental Honors Committee, 20 s.h. (or enough to satisfy the requirements for graduation).

Chemistry 153-154 is a special laboratory course in which there is individual attention to and supervision of the work of each student.

Chemistry 173-174 is a seminar primarily for Honors students of both Junior and Senior years. The purpose is to give practice in the use of chemical literature and the oral presentation of assigned topics.

In Chemistry 275-276 an experimental research project is carried out under the direction of a member of the Staff, the object being to gain acquaintance with the aims and methods of research. A written report on the research is required.

A general examination in chemistry is given at the end of both Junior and Senior years.

* Not offered in 1945-46.

ECONOMICS AND BUSINESS ADMINISTRATION

PROFESSOR HOOVER, CHAIRMAN; PROFESSOR DE VYVER, DIRECTOR OF UNDERGRADUATE STUDIES; PROFESSORS BLACK, RATCHFORD, SPENGLER AND VON BECKERATH;
ASSOCIATE PROFESSOR LESTER; ASSISTANT PROFESSORS DELAPLANE,
EITEMAN, LANDON, LEMERT, SHIELDS, SMITH, SPRINGER
AND WELFLING; DRs. BERRY AND VAN VOORHIS

The Department offers instruction in general economics, business administration, and accounting. The general course in economics affords a survey of the whole field of economic thought and lays the foundation for specialized study in various branches of the subject. Advanced courses are offered in theoretical and applied economics.

A special group of studies is provided for candidates for the Bachelor of Arts degree who are definitely looking forward to a business career at the conclusion of their college course. While this group is mainly composed of liberal rather than technical studies, it gives opportunity in the Junior and Senior years for specialized study in such subjects as money and banking, public and corporation finance, investments, railroad and water transportation, economic geography, marketing, insurance, industrial management, accounting, and business statistics.

ECONOMICS

51-52. Principles of Economics.—6 s.h. (E & W)

PROFESSORS DE VYVER AND SPENGLER; ASSISTANT PROFESSORS
EITEMAN, LANDON, AND SMITH

This course must be passed by all students planning to elect further courses in Economics and Business Administration.

One section of Economics 51 will be offered during the spring semester, and one section of Economics 52 will be offered during the fall semester.

103. Transportation.—Essential features, problems, and competitive positions of rail, highway, air, and inland-water transportation, with most emphasis on rail transportation. Special attention is given to the economic significance of transportation, and to cost factors, rates and their economic effects and regulations. 3 s.h. (W)

ASSISTANT PROFESSOR LANDON

107. Conservation.—A study of the extent and distribution of our natural resources and their service in regional and national development. Emphasis will be placed upon both the natural and human factors involved in the genesis of current problems. Term reports dealing with problems of special interest to those participating will be considered. 3 s.h. (W)

ASSISTANT PROFESSOR LEMERT

132. The Economic History of the United States.—A study of the agricultural, industrial, commercial, and financial progress of the United States from Colonial times to the present day. Special attention will be devoted to mass production, business cycles, great fortunes, and the relationships between government and business. 3 s.h. (W)

ASSISTANT PROFESSOR SMITH

138. Business Statistics.—A course in elementary statistics designed principally for students of economics and business administration. The material is also of interest to those specializing in engineering, forestry, political science, and sociology. The course deals with collection of statistical data, construction of statistical tables and charts, and a brief study of the fundamental statistical techniques. Offered both semesters. 3 s.h. (E & W)

ASSISTANT PROFESSOR SMITH

Open to Juniors, and to Sophomores in the second semester. Not open to Seniors except with the permission of the Director of Undergraduate Studies.

No credit is given for this course to a student who takes Mathematics 74.

[Note: The attention of students who are taking, or who propose to take, courses 143, 144, or 158 is called to Mathematics 71, "Mathematics of Investment." This course is recommended as an elective for Sophomores or Juniors.]

139. Advanced Business Statistics.—This course is designed for students who wish more thorough preparation in statistics, either for use in business or to meet civil service requirements. Special emphasis is placed on index numbers, time series analysis, and correlation methods. Prerequisite: Economics 138 or the equivalent. 3 s.h. (E & W) ASSISTANT PROFESSOR SMITH

153. Money Credit and Banking.—This course begins with a study of the nature, characteristics, and functions of money, credit, and the commercial banking system. It covers also the history of commercial banking in the United States; the foundation, organization, and functions of the Federal Reserve System; the supervision and control of commercial banks; deposit insurance; and the value of money. 3 s.h. (W) ASSOCIATE PROFESSOR LESTER AND PROFESSOR RATCHFORD

154. Advanced Money and Banking.—A study of foreign banking systems, central bank credit policies, recent and current monetary and banking problems, and monetary and banking reforms. 3 s.h. (W) ASSOCIATE PROFESSOR LESTER AND PROFESSOR RATCHFORD

155. Labor Problems.—An examination of present-day labor problems followed by an intensive study of methods used by employers and workers in meeting those problems. 3 s.h. (E) PROFESSOR DE VYVER

169. Economics of Consumption.—Economic problems of the family. Factors determining choice; commercial and legal standards for consumers' goods; consumer credit and co-operation; income and standards of living. 3 s.h. (E) ASSISTANT PROFESSOR SMITH

186. Latin-American Economics.—Facts and factors in the economic structure and growth of the Latin-American nations; population, labor productivity, and standards of living; problems of industry, agriculture, and mining; transportation and public utilities; monetary and fiscal policies; the migration of capital and the role of the United States as a creditor nation; economic thought and institutions. 3 s.h. (W) ASSISTANT PROFESSOR SMITH

187. Public Finance.—This is a general course in the principles of public finance. It covers the constitutional, economic, and administrative aspects of public revenues, public expenditures, public debts, and intergovernmental fiscal relations. Special attention is given to current trends and problems. 3 s.h. (W) PROFESSOR RATCHFORD

189. Business and Government.—This course deals with the economics of public policy regarding such matters as business combinations, corporate organizations, industrial price policies, marketing practices, economic planning, cartels, and similar problems of governmental regulation of business. 3 s.h. (W)

199. Economic Analysis.—This course deals with resource allocation, price determination, distribution, variations in the level of employment and national income, and major problems occasioned by economic progress. 3 s.h. (W)

215. Economic Systems.—A study of alternative economic systems. In addition to an analysis of communism, anarchism, and the variants of socialism, the course will include a consideration of other proposed modifications of the existing economic order. 3 s.h. (E) PROFESSOR HOOVER

216. Economic Functions of the State.—A consideration of the potential economic functions of the state, with particular reference to the relation between the performance of these functions by the state and the political form of the state. 3 s.h. (E) PROFESSOR HOOVER

217. Population, Resources, and Standards of Living.—A critical survey of the economic laws of returns and of pre- and post-Malthusian population theory; consideration of the relation between natural increase and the laws of economic distribution and of the effects of changes in the rate of natural increase upon various classes of industry and upon employment; examination of the factors which govern population growth and of current population trends; analysis of international economic and political problems which are founded upon population pressure; consideration of the economic and the biological aspects of differential birth-rates. 3 s.h. (w) PROFESSOR SPENGLER

218. Business Cycles.—A study of the various types of cyclical movements in industry, with special emphasis on cycle theory and methods of controlling or modifying business cycles. 3 s.h. (w) ASSOCIATE PROFESSOR LESTER

230. Public Debts in the United States.—A study of the characteristics of public credit as shown by the experience of national, state, and local governments in the United States. Topics considered include: forms, methods, and purposes of borrowing; effects of the contraction and repayment of debts on governmental fiscal policies, the banking and credit system, and business activity; methods of controlling or limiting debts; refunding and adjustment procedures; defaults and repudiations. Prerequisite: Economics 187 or consent of instructor. 3 s.h. (w) PROFESSOR RATCHFORD

231. The Economic History of Modern Europe.—A study of the economic development of Europe since the sixteenth century to the present, treating such topics as the guilds, mercantilism, money, banking, crises, the industrial revolution, the interrelationships of government and business, and the economic consequences of war. The historical backgrounds of present economic problems will be emphasized. 3 s.h. (w) ASSISTANT PROFESSOR SMITH

233. State and Local Finance.—A study of expenditures, taxation, and financial administration in state and local governments with emphasis on current problems. Special attention will be given to research methods and materials and to the financial relations between state and local governments. Prerequisite: Economics 187 or consent of instructor. 3 s.h. (w) PROFESSOR RATCHFORD

234. Federal Finance.—A study of the expenditures, revenues, and financial administration of the government of the United States, with emphasis on current problems. Special attention given to budgetary procedure, corporate and individual income taxes, and the financial relations between Federal and state governments. Prerequisite: Economics 187 or consent of instructor. 3 s.h. (w) PROFESSOR RATCHFORD

237-238. Statistical Methods.—A study of statistical methods appropriate for dealing with problems in business and the social sciences. In addition to developing more thoroughly the subjects considered in *Business Statistics*, the following methods will be considered: simple, multiple, partial, and curvilinear correlation; curve fitting; probability; frequency distributions; and reliability of estimates. Prerequisite: Economics 138 or consent of the instructor. 6 s.h. (w)

241-242. Value and Distribution.—This course is a critical survey of the leading contemporary explanations of price formation and of the determination of interest, rent, wages, and profits. 6 s.h. (w) PROFESSOR SPENGLER

245. Problems of Modern Industrialism.—This course first surveys technological efficiency and market organization as limiting factors in the determination by industrial management of the rational requirements of plant organization. External political and social forces are then introduced into the complex to show modern industrialism as a phase of mature capitalism. Against

the background of modern capitalism, the issue and trends of public policy with respect to economic organization in America and Europe are compared and appraised, with special emphasis on the problems of industrial demobilization and on industrial reconstruction after the war. 3 s.h. (w)

PROFESSOR VON BECKERATH

256. Labor Legislation.—A study of the relations of the state to labor problems with special reference to remedial legislation and to interference in labor disputes. Prerequisite: Economics 155, or with the consent of the instructor. 3 s.h. (w)

PROFESSOR DE VYVER

260. Social Insurance.—A consideration of the economic and social problems involved in workmen's compensation laws, unemployment insurance, old-age pensions, and health insurance for workers. Particular attention will be given to the present Federal and state social security legislation. 3 s.h. (w)

PROFESSOR DE VYVER

265. International Trade and Finance.—A study of the fundamental principles of international trade and foreign exchange. Subjects covered will include international specialization, balance of payments, foreign investments, tariffs and commercial policies, exchange control, exchange rates, and international monetary problems. 3 s.h. (w)

PROFESSOR VON BECKERATH AND ASSOCIATE PROFESSOR LESTER

268. Competitive Versus Monopolistic Enterprise.—(1) Competition as an economic order. (2) Competition as a political order. (3) Monopoly as a disturbance of (1) and of (2). (4) What can government do for the maintenance of the competitive order? (5) What can the judiciary do for the maintenance of the competitive order? (6) What can business do for the maintenance of the competitive order? (7) Limits and difficulties of a liberal solution. (8) Short discussion of different types of compromise solutions, both in the governmental and the economic field. (9) The effects of war on competition and private enterprise. 3 s.h. (w)

PROFESSOR VON BECKERATH

280. Advanced Economic Problems.—This course is designed to afford students an opportunity to integrate the economic principles which they have acquired in specialized courses, through the application of these principles to current economic problems. Offered both semesters. Not open to graduate students. 3 s.h. (E & W)

PROFESSOR RATCHFORD

BUSINESS ADMINISTRATION

A. ACCOUNTANCY

57-58. Principles of Accounting.—Elementary principles of single proprietorship, partnership, and corporation accounting. Supervised laboratory periods will be assigned. 6 s.h. (E & W)

PROFESSOR BLACK; ASSISTANT PROFESSOR SHIELDS

171-172. Advanced Accounting.—Advanced accounting theory and practice applied to the managerial problems of valuation and operation in corporations, consolidations, mergers, and liquidations. Open to students who have completed Accounting 57-58. 6 s.h. (E & W)

PROFESSOR BLACK; ASSISTANT PROFESSOR SHIELDS

173-174. Auditing, Theory and Practice.—This course prepares the manager to investigate the operation of his own business, the prospective investor to determine the value of the proposition, the student to practice the public accounting profession. The first semester deals with detail and balance sheet audits and the second semester with special investigations. Problems, working papers, and reports. Prerequisite: Economics 171-172 and permission of the instructor. 6 s.h. (w)

ASSISTANT PROFESSOR SHIELDS

175-176. C. P. A. Review.—Thorough practice in classroom to prepare candidates for the Certified Public Accountant examinations. The object is to train students to apply accounting principles and to work in classroom under substantially the same conditions as in the examination room. Practical accounting problems, auditing analysis, and theory of accounts. Prerequisite: Economics 171-172 and permission of the instructor. 6 s.h. (w)

PROFESSOR BLACK

177. Income Tax Accounting.—A study of the accounting principles involved in the management of business enterprise under the requirements of Federal income tax laws. Practice is given in the preparation of tax returns. Prerequisite: Economics 171-172 or permission of the instructor. 3 s.h. (w)

ASSISTANT PROFESSOR SHIELDS

178. Accounting Systems.—The design and installation of accounting systems and the presentation of accounting reports to management in basic manufacturing industries, mercantile establishments, financial institutions, and municipalities. Prerequisite: Economics 171-172 or permission of the instructor. 3 s.h. (w)

ASSISTANT PROFESSOR SHIELDS

180. Governmental Accounting.—Accounting principles and methods used in the control and administration of governmental units. Emphasis is placed upon state, county, and municipal governments. A study is made of the accounting system of the Federal Government. Prerequisite: Economics 57-58 and permission of the instructor. 3 s.h. (w)

ASSISTANT PROFESSOR SHIELDS

275-276. Advanced Industrial Accounting and Management.—This course traces the ways and means of executive control through statistics and industrial accountancy. Emphasis is put upon the economics of overhead costs. A complete practice set of cost accounting is worked by each student during the course. Prerequisite: Economics 171-172 or permission of the instructor. 6 s.h. (w)

PROFESSOR BLACK; ASSISTANT PROFESSOR SHIELDS

B. COMMERCE AND INDUSTRY

11. Economic Geography.—A course in regional economic geography embracing the study of the world's major geographic regions, their present and potential production of food and raw materials for manufacture, and the relationships between these factors and the development of manufacturing industries, cities, and commerce. Offered both semesters. 3 s.h. (E & w)

ASSISTANT PROFESSOR LEMERT

105. Industrial Management.—A study of the organization and management of industrial production, with emphasis upon the principles governing location and plant design, the planning and control of materials and methods, and general price policies. Offered both semesters. 3 s.h. (E & w)

PROFESSOR BLACK; ASSISTANT PROFESSOR LANDON

109. The Economic Geography of Latin America.—This course involves comprehensive study of the resources and people of Mexico, the West Indies, and Central and South America. Special emphasis is placed upon the possibilities and limitations of increases in trade between the United States and the leading Latin-American countries. 3 s.h. (w)

ASSISTANT PROFESSOR LEMERT

115. Economic Geography.—A study of geographic influences consisting of location, maps and their interpretation, climate topography, soils, minerals, bodies of water, plants, animals, and the works of man. This course is required of all students in Teaching Group, Class B, and is also recommended for those intending to specialize in foreign trade or the diplomatic service. 3 s.h. (E & w)

ASSISTANT PROFESSOR LEMERT

116. Economic Geography and Industrial Organization.—A study of the economic resources of the world; the products of the agricultural and manufacturing industries; trade routes and trade centers; and the influence of geographic factors on the economic development of nations. This course is required of all students in Teaching Groups, Class B, and is also recommended for those intending to specialize in foreign trade or the diplomatic service. Prerequisite: Economics 115. 3 s.h. (E) ASSISTANT PROFESSOR LEMERT

118. Economic Geography of the South.—A study of the agricultural, commercial, and industrial development, with special emphasis upon the expansion of Piedmont industries. 3 s.h. (w) ASSISTANT PROFESSOR LEMERT

120. Economic Geography of the Pacific.—The physical influences, natural resources, and economic activities of Asia, Oceania, and portions of the western coasts of North and South America with special emphasis upon their relationship to present developments. 3 s.h. (E & w) ASSISTANT PROFESSOR LEMERT

143. Corporation Finance.—Principles and problems in the financial organization of corporations; the study of corporate securities, the management of capital, the distribution of earnings; industrial combinations; insolvency and reorganization. Offered both semesters. 3 s.h. (E & w)

* ASSISTANT PROFESSOR EITEMAN AND OTHERS

Though not a prerequisite, Economics 57-58, Principles of Accounting, is recommended to students electing this course.

Special sections of Corporation Finance will be offered for students who have had Economics 57-58.

144. Investments.—A study of the role which the security markets play in American economic life. Attention is devoted to the various types of securities, to the mechanics of their purchase and sale, to the factors which affect and determine their market prices, and to the relationship of stock speculation to the banking system and to general prosperity. Prerequisite: Economics 57-58 and 143. 3 s.h. (E & w) ASSISTANT PROFESSOR EITEMAN

152. Global Geography.—The subject matter involves resource patterns and world affairs, geonomic problems, geo-cultural problems, and geographic factors affecting geopolitical questions. No prerequisites. 3 s.h. (w)

ASSISTANT PROFESSOR LEMERT

158. Insurance.—The development and basic principles of insurance. This course covers such topics as business uses, policy contracts, costs, and regulation of insurance. Life and fire insurance are emphasized. Offered both semesters. 3 s.h. (w)

168. Marketing.—The topics covered in this course include the economic importance of markets and the marketing system; marketing functions, organization, and methods; price policies; finance; speculation; market research; and the planning of marketing activities; co-operative marketing; criticism of marketing and means for improvement; and regulation. 3 s.h. (w)

ASSISTANT PROFESSOR LANDON

181-182. Business Law.—The fundamental principles of law as applied to common business transactions. The topics presented are: contracts, agency, bailments, sales, negotiable instruments, partnerships, corporations, and bankruptcy. *For Seniors.* 6 s.h. (E & w)

ASSISTANT PROFESSOR EITEMAN; PROFESSOR BLACK

184. Commercial Law for Accountants.—A review and summation of commercial law principles as they apply to accounting theory and practice. Emphasis will be placed upon the commercial law sections of the Certified Public Accountant examinations. Students are admitted to the course by permission of the instructor. *For Seniors.* 3 s.h. (w) PROFESSOR BLACK

188. Personnel Management.—A study of the fundamental principles and problems of labor management and of collective bargaining under modern industrial conditions and under existing labor legislation. Prerequisite: Economics 155. 3 s.h. (E)

PROFESSOR DE VYVER

NAVY V-12 COURSES

BA1-2. Principles of Economics I and II.—May be substituted for Economics 51-52. 6 s.h.

BA3. Money and Banking.—May be substituted for Economics 153. 3 s.h.

BA4. Transportation.—May be substituted for Economics 103. 3 s.h.

BA5. Accounting I.—May be substituted for Economics 57. 3 s.h.

BA6. Accounting II.—May be substituted for Economics 58. 3 s.h.

BA7. Statistics I.—May be substituted for Economics 138. 3 s.h.

BA10-11. Business Finance.—Four lecture-recitation periods per week for two terms. May be substituted for Economics 143. 8 s.h.

BA12-13. Business Organization and Management.—May be substituted for Economics 105. 8 s.h.

BA15-16. Business Law.—May be substituted for Economics 181-182. 6 s.h.

BA17. Elementary Cost Accounting.—May be substituted for Economics 275. 4 s.h.

BA18. Accounting and Statistical Controls.—3 s.h.

BA19. Marketing.—May be substituted for Economics 168. 3 s.h.

DEPARTMENTAL MAJOR

A major in economics requires the following election of courses:

A

Economics 51-52. Principles of Economics.

Economics 138. Business Statistics.

Economics 153. Money and Banking.

B

A minimum of two courses from *each* of the following groups:

Group I

Economics 154. Advanced Money and Banking.

Economics 187. Public Finance.

Economics 199. Economic Analysis.

Economics 217. Business Cycles.

Economics 265. International Trade and Finance.

Group II

Economics 132. Economic History of the United States.

Economics 155. Labor Problems.

Economics 189. Government and Business.

Economics 215. Economic Systems.

Economics 218. Population, Resources and Standards of Living.

C

Additional hours in Junior and Senior courses in Economics to total 30 hours (including Economics 51-52).

D

Related work of at least six hours selected from the following courses:

Economics 57-58. Principles of Accounting.

Economics 143. Corporation Finance.

Economics 152. Global Geography.

Economics 158. Insurance.

Economics 168. Marketing.

Note: Students who take Economics 51-52 in their Freshman year may in their Sophomore year enroll in courses in the department ordinarily open only to Juniors.

EDUCATION

PROFESSOR HOLTON, CHAIRMAN; PROFESSOR PROCTOR, DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR EASLEY, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS BROWNELL, CARR, AND CHILDS; ASSOCIATE PROFESSOR SCATES; VISITING ASSISTANT PROFESSOR VAN ALSTYNE; ASSISTANT PROFESSOR WATSON; AND ASSISTANTS

Courses in the Department of Education are designed for two groups of students: (1) students with teaching experience or others who have definitely chosen teaching as their life-work, and (2) students who desire to study the school as an outstanding social institution.

Students who do not expect to teach but merely desire an understanding of the school as part of a liberal education are advised to elect such courses as 8, 54, 104, and 105 for their introductory work in the Department and then to elect further work in accordance with their special interests. Students who expect to engage in the various phases of teaching should plan their courses in accordance with the general regulations for Groups V and VI as outlined in this catalogue. Students preparing for college teaching should elect courses in the history and philosophy of education and in educational psychology. Students in Group VI preparing to teach in elementary or secondary schools should enroll in courses 84 and 88 not later than their Junior year and are then required to complete courses 101 and 110.

1. Orientation Course in Study and Study Habits.—A course for Freshmen whose high-school and other records indicate the need of help in working out a satisfactory method of study. The factors of study, the use of textbooks, note-taking from lectures and parallel readings, and applications of the factors of study to the daily problems of the student are among the matters considered. *Either semester. 3 s.h. (w & e)* STAFF

6. A Study of Reading Skills.—This is a course in the psychology of reading. It is a study of individual and group problems of reading, intended to aid those who need to read more rapidly and to develop habits of reading for specific purposes. Diagnosis of reading difficulties and remedial procedure emphasized. Enrollment limited to twenty-five students. Admission by consent of instructor. Laboratory and materials fee, \$2.00. *Either semester. 3 s.h. (e)* VISITING ASSISTANT PROFESSOR VAN ALSTYNE

8. The Learning Process.—A course in elementary educational psychology, offered for Freshmen and Sophomores. *Either semester. 3 s.h. (w & e)* VISITING ASSISTANT PROFESSOR VAN ALSTYNE

54. Introductory Course in History of Education.—A study of the types of educational systems and institutions evolved in Western Europe and the United States as an introduction to current educational problems. *First semester.* 3 s.h. (E)

PROFESSORS HOLTON AND CARR AND ASSOCIATE PROFESSOR SCATES

68. Mental Hygiene of the School Child.—A study of personality factors as related to the adjustment and success of the school child, the foundations of motivation; typical problems of maladjustment; social heredity and its educational implications; variations in intelligence. Prerequisite: course 8 or 58. *Either semester.* 3 s.h. (E)

VISITING ASSISTANT PROFESSOR VAN ALSTYNE

84. Social Foundations of Education.—This course is the first of four intended to give the student a thorough survey of the place and function of education and an understanding of the school as a social institution. It is an introductory course emphasizing those historical, philosophical, and sociological factors which explain trends in American education. *Either semester.* 3 s.h. (E)

PROFESSORS HOLTON AND PROCTOR

Note: Courses 84, 88, 101, and 110 constitute a sequence of twelve required hours of the work in Education in Group VI of the groups of studies leading to the Bachelor's degree. Students should confer with the undergraduate directors of the departments as to working this sequence into their schedules.

88. Psychological Foundations of Modern Education.—This course is intended to acquaint prospective teachers and administrators with those aspects of modern psychology which relate most directly to instruction and to the conduct of the school. The subject matter consists of the psychological facts respecting human development, the learning process, and mental hygiene, together with applications to the teaching process and to the guidance of the learner in the many phases of his education. *First semester.* 3 s.h. (E)

PROFESSOR BROWNELL AND VISITING ASSISTANT
PROFESSOR VAN ALSTYNE

See note following course 84.

101. Introduction to Curriculum and Technique of Teaching.—A course presenting the application of principles of education to the problem of developing curricula for the elementary and secondary schools; preliminary discussion of the nature of education and of the psychological and cultural foundations of curriculum; a consideration in the light of educational theory of current problems of curriculum development, organization of instruction, and technique of teaching. 3 s.h. (E)

PROFESSOR CARR

See note following course 84.

105. Introduction to Educational Sociology.—A study of social forces, processes, and values as affecting education, and the interaction of school and community. 3 s.h. (E)

PROFESSOR CHILDS

110. Introduction to Measurement and Research in Education.—The course is designed to give prospective teachers and administrators an elementary acquaintance with modern practices in educational measurement for both instructional and research purposes. It presents the history of modern testing and evaluation, the purposes for which measurement is used and the philosophy appropriate to each; the techniques of test construction, simple statistical procedures for refining tests and interpreting results, marking, and a brief overview of the nature and development of quantitative research in education. Students in Group VI should take Education 84 and Education 88 before taking this course. 3 s.h. (E)

ASSOCIATE PROFESSOR SCATES

See note following course 84.

112. Methods of Teaching and Presentation of Subject Matter in the Primary Schools.—A study of materials and methods in the primary school subjects with special reference to reading, language, number, and the social studies; introduction to the psychology of the primary school branches; practice in using educational tests. A minimum of thirty laboratory periods of observation and practice teaching. Prerequisite: course 101. *For Seniors only.*
4 s.h. (E) PROFESSOR CARR

A. Integrated Art in the Public School.—This course consists of three semester hours of work in materials and methods. (Required of all students completing requirements in Group VIB, Elementary School Teaching, of the "Groups of Studies for the Degree of Bachelor of Arts.") *For Juniors and Seniors.* (E) MRS. MASON

[Not offered in 1945-46, unless as many as eight students enroll.]

B. Industrial Art in the Public School.—This course consists of three semester hours of work in materials and methods. (Required of all students completing requirements in Group VIB, Elementary School Teaching, of the "Groups of Studies for the Degree of Bachelor of Arts.") *For Juniors and Seniors.* (E) MRS. MASON

[Not offered in 1945-46, unless as many as eight students enroll.]

115-116. Secondary Education: Principles and Practice.—The study of the nature, scope, and methods of secondary education, emphasizing fundamentals of the teaching process and exemplifying theory by practice. Sixty hours of observation work and thirty hours of supervised practice teaching required. Students preparing to teach in the junior high school are permitted to concentrate in that field. *Students must arrange their schedule to permit four hours of observation, conference, and practice teaching weekly. Since practice-teaching facilities are limited, students with superior record will be given preference in the practice teaching. No student who has not passed the work of the Junior year at Duke University with an average of at least one and one-half quality points will be permitted to do practice work. Students who have the required average in quality points must before February 1 pass with grade of "B" or better, examination in the subject they expect to teach, based upon course of study of the school in which they expect to do their practice teaching. Before entrance into practice teaching, students must complete thirty hours of observation under supervision. Their first five hours of practice must be satisfactory to the instructor directing observation and to the teacher of the class taught before they can continue the thirty hours of practice teaching required by the course. For Seniors only. 6 or 8 s.h. [One section of 115 and one of 116 will be offered each semester of 1945-46.]* (E)

PROFESSOR CHILDS AND ASSISTANTS

118. Educational Implications of Genetic Psychology.—A course tracing the development of the individual through the stages of growth and learning, with emphasis upon early and later childhood; the development of such behavior patterns as play, language, etc.; the process of socialization; and similar material of especial significance to teachers. Prerequisite: three semester hours in psychology or educational psychology. 3 s.h. (E)

PROFESSOR BROWNELL

122. Methods of Teaching and Presentation of Subject Matter in the Grammar Grades.—A study of materials and methods in the grammar grade subjects with special reference to reading, language, number, and the social studies; introduction to the psychology of the grammar grade branches; practice in the use of educational tests. A minimum of thirty laboratory periods of observation and practice teaching. Prerequisite: course 101. *For Seniors only.*
4 s.h. (E) PROFESSOR CARR

128. Tests and Measurements in Personnel Work.—A critical study of the principles and techniques of measurement in industrial, social, and educational personnel work. The course attempts to serve three purposes: (1) to acquaint the students, as a matter of cultural interest, with the rapidly expanding field of personnel study; (2) to provide a basis of technical training to enable the student to develop himself professionally after he enters personnel work; and (3) to provide a basis for personnel vocational orientation. 3 s.h. (w)

ASSISTANT PROFESSOR WATSON

131. Observation and Practice Teaching.—Open to Seniors who are enrolled in course 101. Separate work for primary and grammar grade teachers. 1 s.h. (E)

PROFESSOR CARR

132. Materials and Methods in Health Education.—Identical with Health Education 132. 3 s.h. (w)

ASSISTANT PROFESSOR AYCOCK

136. The Teaching of High-School English.—Identical with English 142. *For Seniors only.* 3 s.h. (E)

ASSISTANT PROFESSOR JORDAN

142. Children's Literature.—Students enrolled will be allowed to specialize in literature of either the primary or grammar grades. *First semester.* 3 s.h. (E)

PROFESSOR CARR

170. The Social and Economic Position of Women.—A course in vocational guidance for women counting as a general elective, but not as part of either a major or minor in Education or toward a North Carolina State teacher's certificate. The purpose of the course is to give the historical background of the changing social and economic position of women, the contributions made by outstanding women, and the vocational opportunities open to women. 2 s.h. (E)

MRS. SMITH

176. Materials and Methods in High-School Science.—Discussion based upon lectures and collateral reading of such topics as aims, tests for values, the curriculum, classroom procedure, course and lesson planning in secondary school science. Prerequisite: at least eighteen hours of science in college. *For Seniors only. First semester.* 3 s.h. (E)

ASSOCIATE PROFESSOR SCATES

185. The Teaching of Religion and Ethics.—Identical with Religion 193; counts as elective in Education only for those students preparing to teach religion in secondary schools. 3 s.h. (w)

ASSISTANT PROFESSOR CRUM

200. Introduction to the Philosophy of Education.—3 s.h. (E)

PROFESSOR HOLTON

203. Principles of School Administration.—Prerequisite: six semester hours of courses 103 and 88 or their equivalent. 3 s.h. (E)

[Not offered in 1945-46]

PROFESSOR PROCTOR

205. Curriculum Problems in Secondary Education.—A consideration of the aims and objectives of secondary school subjects, emphasizing practical problems of curriculum-making in the high school. 3 s.h. (E)

[Not offered in 1945-46]

PROFESSOR CHILDS

206. Sociological Foundations of the Secondary School Subjects.—A consideration of the aims and objectives of secondary school subjects, emphasizing problems of curriculum-making. Prerequisite: general sociology or approved work in education, including course 105. *First semester.* 3 s.h. (w)

PROFESSOR CHILDS

207. Technique of Teaching.—An advanced course in the teaching process, dealing with the theory underlying sound technique and applied specifically to the work of the elementary school. 3 s.h. (E)

PROFESSOR CARR

[Not offered in 1945-46]

208A. Mental Tests and Applications.—A study of the development of intelligence testing, the concept of general intelligence, various recent applications of mental tests, and training in the giving of individual tests. Prerequisite: course 258 or six semester hours of other work in educational psychology or psychology. 3 s.h. (E) *First semester.*

VISITING ASSISTANT PROFESSOR VAN ALSTYNE

208B. Mental Tests and Applications.—A continuation of course 208A intended to provide experience in the administration of mental tests and in the interpretation of data. Open only to students approved by the instructor. 2 s.h. (E)

VISITING ASSISTANT PROFESSOR VAN ALSTYNE

209. Statistical Methods Applied to Education.—A study of statistical methods of treating educational and social data designed to enable teacher or administrator to interpret and use the results of scientific investigations in education. 2 s.h. (E)

ASSOCIATE PROFESSOR SCATES

212. Psychology of the Elementary School Subjects.—A study of the psychology of learning as applied to teaching the common school subjects. 3 s.h. (E) *First semester.*

PROFESSOR CARR

213. Problems in the Organization and Administration of Elementary School.—A study of the work of elementary school principals. 3 s.h. *Second semester.*

PROFESSOR PROCTOR

214. History of Education in the United States.—A study of the development of the American public school and the interaction of higher education and the public school. 3 s.h. (w)

PROFESSOR HOLTON

[Not offered in 1945-46]

215. Educational and Vocational Guidance.—A survey of the literature on guidance with special reference to secondary education; a critical study of the principles and techniques used in guidance; an attempt to locate the problems most urgently in need of solution. Prerequisite: twelve semester hours in the Department, including course 105 or course 206. *Second semester.* 3 s.h. (E)

PROFESSOR CHILDS

[Not offered in 1945-46]

216. Psychological Principles of Secondary Education.—A study of adolescence and the psychology of learning as applied to teaching the principal high-school subjects. *Second semester.* 3 s.h. (w)

PROFESSOR CHILDS

218. Educational Implications of Genetic Psychology.—Special section of course 118, intended primarily for graduate students, ordinarily not offered the same year in which 118 is given. Prerequisite: six semester hours of psychology or educational psychology. 3 s.h. (E)

PROFESSOR BROWNELL

[Not offered in 1945-46]

219. Experimental Education.—The course is designed to provide training (1) in planning, (2) in prosecuting, and (3) in reporting quantitative investigations in the field of education, more especially in the field of learning and teaching the various school subjects. *First semester.* 3 s.h. (E)

PROFESSOR BROWNELL

222. The Curriculum and Materials of the Elementary Grades.—A study of curriculum problems in the elementary schools. 3 s.h. (E)

PROFESSOR CARR

225. The Teaching of History and the Social Studies.—Identical with History 211. The course counts as an elective in the Department of Education only when approved by the Department and the instructor. 3 s.h. (w)

[Not offered in 1945-46]

ASSOCIATE PROFESSOR MANCHESTER

227. The Psychology of Learning: Problems.—The major problems related to the learning process will be examined, with the experimental literature bearing on them. The curves of learning and forgetting, the distribution of practice, economical methods of learning, and the transfer of training will be the major topics considered. 3 s.h. (E) ASSISTANT PROFESSOR EASLEY
[Not offered in 1945-46]

228. The Psychology of Learning: Theoretical and Experimental.—This is a continuation of course 227. In this semester the laws of learning, the most important explanatory principles, and the major systems of the psychology of learning will be considered. Class experiments will run throughout the semester. Prerequisite: course 227 or its equivalent. *First semester.* 3 s.h. (E)
[Not offered in 1945-46] ASSISTANT PROFESSOR EASLEY

232. Elementary School Supervision.—A survey of supervision as a means of improving instruction and adapting the curriculum to child and community needs. 3 s.h. (E) PROFESSOR CARR

233. Administrative Pupil-Accounting.—An advanced study of gradation and classification of pupils, with incidental attention to the keeping of records and the making of reports. The study includes a consideration of individual differences, promotions, acceleration, and retardation of pupils; the various plans for classification and gradation; interpreting the results of tests; and some practice in the computation of statistical measures. *Second semester.* 3 s.h. (E) PROFESSOR PROCTOR

234. Secondary School Organization and Administration.—A study of the outstanding problems of secondary school organization and administration other than the problem of gradation and classification of pupils. *First semester.* 3 s.h. (E) PROFESSOR PROCTOR

237. Investigations in Reading.—A summary of the results of the more important scientific studies in reading; interpretation of the results in terms of aims, methods, materials of instruction, testing diagnosis, and supervision; emphasis on problems requiring further investigation. 3 s.h. (E) PROFESSOR CARR

244. Studies in the Historical Development of Public School Administration.—An advanced course devoted to the development of public school administration in the South, with especial reference to North Carolina as a type. 3 s.h. (w) PROFESSOR HOLTON
[Not offered in 1945-46]

246. The Teaching of Mathematics.—Identical with Mathematics 204. The course counts as an elective in the Department of Education only when approved by the Department and the instructor. 3 s.h. (E) PROFESSOR RANKIN
[Not offered unless enrollment justifies.]

247. Investigations in Arithmetic.—An analytical survey of investigations in arithmetic, with three purposes in view: (1) to examine the techniques employed with respect to their adequacy as means of solving the problems attacked; (2) to test the validity of the results announced and the values of these results for the teaching of arithmetic; (3) to locate further problems in arithmetic in need of scientific research. *Second semester.* 3 s.h. (E) PROFESSOR BROWNELL

253. Legal Phases of School Administration.—A study of judicial decisions and the development of outstanding features of statute law controlling school administration, with special emphasis upon North Carolina materials. 3 s.h. (w) PROFESSOR HOLTON
[Not offered in 1945-46]

254. History of Secondary Education in the United States.—A study of historical and comparative conceptions of the secondary school, changes in American life affecting the secondary school, present status of the secondary school, current tendencies toward expansion, and the problem of state and federal aid. 3 s.h. (E) PROFESSOR PROCTOR

[Not offered in 1945-46]

258. Educational Measurements.—A critical study of the principles and techniques involved in measurement in education, with opportunity for individual research. Prerequisite: twelve semester hours in the Department, including a course in educational psychology. 3 s.h. (E) ASSOCIATE PROFESSOR SCATES

264. Recent Movements in American Education.—An intensive study of educational thought and practice since 1900. 3 s.h. (w) PROFESSOR HOLTON
[Not offered in 1945-46]

266. The Teaching of High-School French.—Identical with French 218. 3 s.h. (w) PROFESSOR WEBB

294. Comparative Education: Recent Movements in European Educational Systems.—A comparative study of the school systems of the principal countries of Europe, with emphasis upon changes since the first World War. *First semester.* 3 s.h. (E) PROFESSOR CARR

[Not offered in 1945-46]

DEPARTMENTAL MAJOR

A major in the Department of Education consists of twenty-four semester hours of work above the Freshman year, not including any work listed as primarily for Freshmen, and including at least six semester hours of courses limited to Seniors or to Seniors and Graduates. Before graduation, students who major in the Department must have credit for at least one course in educational psychology, such as 8, 68, or 88, and one course in history and philosophy of education, or in educational sociology. The remainder of their work may be elected from courses listed for Sophomores, Juniors, and Seniors, provided at least six semester hours of the course work are taken from courses listed for Seniors and Graduates, and provided that not more than six semester hours may be of courses numbered below 100.

DEPARTMENTAL HONORS PROGRAM

Students may become candidates for Honors in education who have passed with grade of "B" or better in their Freshman or Sophomore years six semester hours of education.

Candidates for Honors in education are required to take in the Junior year twelve semester hours in the Department and to make an average of "B" or better on this work. The remaining work in the Junior year will be chosen from related work and other electives with the consent of the Departmental Committee on Honors. In the Senior year, in addition to the equivalent of twelve semester hours of supervised reading in education, the candidate must elect with the approval of the Departmental Committee on Honors six semester hours of work from the courses in education offered in the 200 group, on which he is required to make a grade of "B" or better and twelve semester hours of related or other elective work.

Of the supervised reading, which shall be done under the immediate supervision of members of the Departmental Committee on Honors, the equivalent of six semester hours shall be devoted to the History of Education; the remaining six semester hours shall be devoted to Educational Psychology, or Secondary Education, or Elementary Education, or Public School Administration as the student may elect and the Departmental Committee approve. In

exceptional cases, qualified students may be permitted to take six semester hours of the supervised reading during the Junior year and increase the amount of course work in the Department the Senior year.

At the conclusion of the work the student shall be given an oral examination by a committee of three, consisting of the two members of the Departmental Committee on Honors in charge of his supervised reading and another member of the Department selected by the Departmental Committee.

ENGLISH

PROFESSOR WHITE, CHAIRMAN; ASSOCIATE PROFESSOR SANDERS, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS BAUM, GILBERT, GOHDES, HUBBELL, AND IRVING; ASSOCIATE PROFESSORS BLACKBURN, PATTON, MITCHELL, AND WARD; ASSISTANT PROFESSORS BEVINGTON, HERRING, JORDAN, LEARY, SUGDEN, TALBERT, VANCE, WEST, AND WHITE; DRs. HARWELL AND POTEAT; MESSRS. BADENOCH, BRICE, BRYAN, FITZGERALD, LOVELL, AND KENNEDY; MRS. BEVINGTON

1-2. English Composition.—All Freshmen are required to take course 1 and course 2. (For exemptions, see Minimum Requirements, p. 54.)

Students who fail in English 1 or 2 must repeat the course in the following semester. Students in courses 1 and 2 who fail to make an average of "C" or better are strongly advised to earn credit for English 53 during their Sophomore year. 6 s.h. (E & W)

ASSOCIATE PROFESSORS BLACKBURN, PATTON, SANDERS, AND WARD;
ASSISTANT PROFESSORS BEVINGTON, JORDAN, LEARY, SUGDEN, TALBERT,
VANCE, AND WHITE; DRs. HARWELL AND POTEAT; MESSRS. BRICE,
BRYAN, FITZGERALD, LOVELL, AND KENNEDY; MRS. BEVINGTON

53. English Composition.—A course in advanced composition and grammar. Emphasis is placed first on the student's mastering the fundamental principles of English grammar and the other essentials of correct writing. Weekly themes are required. 3 s.h. (W) ASSISTANT PROFESSOR JORDAN
[Not offered in 1945-46]

58. English Composition.—A course in creative writing with emphasis on precision in the use of English. No textbook is used. Daily written assignments are discussed in class and are so planned as to develop the student's interest in correct English and forceful expression. 3 s.h. (W)
[Not offered in 1945-46] ASSISTANT PROFESSOR JORDAN

65-66. English Composition.—A foundation course in imaginative writing, both prose and verse. Open to Sophomores and in special cases to Freshmen. The consent of the instructor is required. 6 s.h. (W)
[Not offered in 1945-46] ASSOCIATE PROFESSOR SANDERS

101-102. Advanced English Composition.—The course attempts to teach professional and secretarial usage and to encourage fluency and accuracy in expression. Primarily for Juniors and Seniors; open also to Sophomores approved by the Dean. 6 s.h. (W) ASSOCIATE PROFESSOR MITCHELL
[Not offered in 1945-46]

103-104. English Composition.—A course in descriptive and narrative writing. Class discussion of students' manuscripts, supplemented by a critical evaluation of a few selected short stories and by individual conferences with the instructor. Open to Sophomores, Juniors, and Seniors. The consent of the instructor is required. 6 s.h. (E & W) ASSOCIATE PROFESSOR BLACKBURN

107-108. Journalism.—The first semester is devoted to news-writing and copy-reading; the second semester to the writing of feature articles and editorials. 6 s.h. (W) ASSISTANT PROFESSOR SUGDEN

109-110. English Composition.—Although designed primarily for students who wish to continue the work of English 103-104, this course is open to others with the consent of the instructor. 6 s.h. (E)

[Not offered in 1945-46]

ASSOCIATE PROFESSOR BLACKBURN

133. Verse-Writing.—The writing and criticism of original verse. Limited to not more than eight students, who must apply in writing to the instructor and submit original verse. Open to Seniors, Juniors, and exceptional Sophomores. Once a week throughout the year. 3 s.h. (E)

[Not offered in 1945-46]

PROFESSOR WHITE

DRAMATICS AND SPEECH

105-106. Playwriting.—In the first semester a study and analysis of the technique of the one-act play. Dramatic writing by the students is discussed in class. The second semester is an intensive period of writing and discussion, with emphasis on the development of individual style. Open to Sophomores approved by the Dean. 6 s.h. (E)

[Not offered in 1945-46]

ASSISTANT PROFESSOR WEST

119-120. History of the Theater.—Selected plays are read for their style, subject matter, and significance; and the history of theater buildings, scenery, acting, etc., is traced. The first semester deals with Greek and Roman, and Hindu, Chinese, and Japanese drama. The second semester covers the liturgical drama of the Middle Ages, the Miracle, Mystery, and Morality plays, and the development of modern drama from the Renaissance to Ibsen. Open to Sophomores approved by the Dean. 6 s.h. (E)

[Not offered in 1945-46]

ASSISTANT PROFESSOR WEST

121-122. Play Production.—The course aims to give an understanding of the basic principles of putting a play on the stage successfully. In the first semester a technical study of the crafts of play production, with laboratory work in designing and building scenery and in lighting. In the second semester, make-up, directing, costume, and stage management, with laboratory work in directing and make-up. Open to Sophomores approved by the Dean. 6 s.h. (E)

ASSISTANT PROFESSOR WEST

139-140. Speaking Voice.—In the first semester a study of the fundamental elements of good speech (diction, breathing, voice placement, and interpretation of meaning) with intensive drills. In the second semester the emphasis is on the finer points of interpretation, and the methods of developing a highly flexible and varied vocal style. Open to all undergraduates with the approval of the Dean. 6 s.h. (E)

ASSISTANT PROFESSOR WEST

150. Oral Interpretation of Literature.—A study of the methods by which the creative literary artist attains the aesthetic objectives of unity, harmony, balance, proportion, variety, contrast, and rhythm; with practice in the technique by which these effects can be communicated to an audience. 3 s.h. (E)

MR. BADENOCH

151. Essentials of Public Speaking.—A basic course in public speaking, designed to give the student the poise and confidence necessary to think and speak freely before an audience. Particular attention is paid to the gathering and organization of speech materials and to oral presentation. 3 s.h. (E & W)

MR. BADENOCH

152. Argumentation.—The principles of argumentation and debating, with special emphasis upon brief-making and practice speaking. Public questions are studied as parallel work. Prerequisite: English 151. 3 s.h. (E & W)

ASSISTANT PROFESSOR HERRING AND MR. BADENOCH

ENGLISH AND AMERICAN LITERATURE AND LANGUAGE

55-56. Representative Writers.—The followings works are studied in the first semester: Homer's *Odyssey* (T. E. Shaw's translation), Chaucer's *Prologue* to the *Canterbury Tales* and probably two *Tales*, Malory's *Morte D'arthur*, Shakespeare's *I Henry IV* and *King Lear* and two other plays, Pepys' *Diary* (selections). In the second semester: Milton's *Paradise Lost* (portions) and some of the shorter poems, Swift's *Gulliver's Travels*, Fielding's *Joseph Andrews*, Boswell's *Johnson*, Hazlitt's *Essays*, Carlyle (selections), Hardy's *Far from the Madding Crowd*. Osgood's *Voice of England* is used as a background text. Lectures, recitations, and frequent tests. 6 s.h. (E & W)

PROFESSOR IRVING; ASSOCIATE PROFESSORS PATTON, BLACKBURN, SANDERS, AND WARD; ASSISTANT PROFESSORS SUGDEN AND VANCE; AND DR. POTEAT

63-64. Introduction to English Poetry.—In the first semester Chaucer, Shakespeare, and Milton are studied; in the second, Pope, the Popular Ballads, the Romantic poets, and Tennyson and Browning. 6 s.h. (E)

ASSOCIATE PROFESSOR MITCHELL

123-124. Shakespeare.—In the first semester plays before ca. 1600 are studied, with emphasis in class on five dramas (e.g., *Richard III*, *Romeo and Juliet*, *I Henry IV*, *As You Like It*, *Twelfth Night*); in the second semester plays after ca. 1600, with emphasis in class on *Hamlet*, *Othello*, *Lear*, and *Macbeth*. Lectures, recitations, and frequent short tests. 6 s.h. (W)

ASSISTANT PROFESSOR TALBERT

125-126. English Literature, 1789-1832.—The course begins with selections from the poetry of the Romantic forerunners. The nature and origins of the Romantic movement are studied, and its relation to the general European scene. The chief emphasis in the first semester is on the work of the older Romantics: Wordsworth, Coleridge, Southey, Scott, and Lamb. In the second semester the chief emphasis is on the work of the younger Romantics: Byron, Shelley, Keats, Leigh Hunt, Hazlitt, and DeQuincey. Informal lectures and class discussion of assigned texts. A limited amount of outside reading is required, and also some memory work. There are about four tests each semester. 6 s.h. (E & W)

PROFESSOR WHITE, ASSOCIATE PROFESSOR PATTON, AND ASSISTANT PROFESSOR WHITE

127-128. English Prose Literature, 1832-1900.—Lectures on the prose writers of the period; close study and discussion of selected works of Carlyle, Macaulay, Newman, Mill, and Thackeray in the first semester; and in the second semester of Arnold, Huxley, Alexander Smith, Morris, Pater, and Stevenson. Collateral reading in the novels of the period with written reports on three novels each semester. 6 s.h. (E)

ASSISTANT PROFESSOR BEVINGTON

[Not offered in 1945-46]

129-130. English Novel.—The work of the first semester covers the history of the novel through Scott; that of the second semester, from Dickens through Hardy. Lectures and book reports. 6 s.h. (E)

ASSOCIATE PROFESSOR MITCHELL AND ASSISTANT PROFESSOR VANCE

131-132. English Literature, 1832-1900.—A survey of Victorian poetry and prose. Selections from Tennyson, Browning, Arnold, Newman, Macaulay, Ruskin, the Rossettis, Morris, Swinburne, and other representative writers of the period. Lectures, discussions, tests, and a term paper each semester. 6 s.h. (E & W)

ASSISTANT PROFESSOR BEVINGTON AND ASSOCIATE PROFESSOR SANDERS

135-136. Major Works of the Victorian Period.—Intensive study of important works not considered in detail in English 131-132, including such works as Mill's *Autobiography and Liberty*, Carlyle's *Past and Present* and *Heroes and Hero Worship*, Tennyson's *Idylls of the King* and *Becket*, Browning's *The Ring and the Book*, Macaulay's *Literary Essays*, Arnold's *Culture and Anarchy* and *Essays in Criticism*, Morris' *Earthly Paradise* and *News from Nowhere*, Ruskin's *Unto This Last*, Butler's *Erewhon*, and Hardy's *The Dynasts*. Lectures, discussions, tests, reports, and one term paper during the year. 6 s.h. (E & W)
ASSOCIATE PROFESSOR SANDERS AND
ASSISTANT PROFESSOR BEVINGTON

137-138. American Literature.—A survey of American literature from Colonial times to the present. Selections from the works of important authors are read, from Cotton Mather to Eugene O'Neill, and whole novels by Hawthorne, Melville, James, Howells, and others. The work of the first semester ends with the Civil War period. Lectures, monthly tests, and a term paper each semester. 6 s.h. (E)
PROFESSOR GOHDES AND ASSISTANT
PROFESSOR LEARY

142. Materials and Methods of Teaching High-School English.—This course is planned to meet the requirements of the several state departments of education and the regional educational governing bodies, and serves as part of the student's general work in practice teaching. It is required in each of the states certifying college graduates who wish to teach high-school English. 3 s.h. (E)
ASSISTANT PROFESSOR JORDAN

143-144. English Literature: Elizabethan and Seventeenth Century.—In the first semester: several Elizabethan plays, with emphasis on Marlowe; selections from the prose writers; selection from the poets, with emphasis on Spenser and Shakespeare. In the second semester: several Jacobean plays; selections from the prose writers, such as Bacon, Browne, and Milton; selections from the poetry of Jonson and Donne and their followers; Milton's early poems, *Paradise Lost*, and *Samson Agonistes*. Lectures, tests, and a term paper each semester. 6 s.h. (E)
ASSOCIATE PROFESSOR BLACKBURN

145-146. English Poetry, 1832-1900.—In the first semester Tennyson and Browning are emphasized; in the second, Arnold, the Rossettis, Morris, Swinburne, Housman, and Hardy. Lectures, discussions, reports, and tests. 6 s.h. (E)
ASSOCIATE PROFESSOR SANDERS
[Not offered in 1945-46]

153-154. Comparative Literature.—Important works in European literature are read in translation and related to similar documents in English literature. In the first semester are read: nine Greek tragedies, five of Plato's *Dialogues*, Vergil's *Aeneid*, and Dante's *Divine Comedy*; in the second semester, Machiavelli, Cervantes, Molière, Voltaire's *Candide*, Goethe's *Faust*, Dostoevski's *The Brothers Karamazov*, Ibsen's plays. 6 s.h. (E)
PROFESSOR IRVING

155-156. Contemporary Drama.—A study of modern representative American and British drama, with special emphasis on origins, types, and styles. A few Continental plays and plays of the current and of recent seasons are included. The student learns to make critical analyses of plays and to relate them to the stage and to production. About a dozen recent plays are read or summarized in class. Students subscribe to the *Theater Arts Monthly*. There are occasional lectures and four to five tests each semester. Open to Juniors and Seniors, and to Sophomores recommended by the Dean. 6 s.h. (E)
ASSISTANT PROFESSOR WHITE

159-160. English Literary Biography.—A reading course in great biographies and autobiographies, with special emphasis on literary characters. Among those studied in the first semester are Cellini, Johnson's lives of several poets, Goethe, Southey's *Life of Nelson*; in the second semester, the autobiographies of Booker Washington, Anthony Trollope, Lincoln Steffens, Henry Adams. Tests and occasional lectures. 6 s.h. (E) PROFESSOR WHITE

[Not offered in 1945-46]

165-166. The Short Story in America.—Specimens of the work of the leading short-story writers from Irving to Saroyan and Hemingway are studied. During the first semester there are also assigned readings in the short narratives of Europe from the time of Petronius to that of Balzac. The lectures begin with a survey of the antecedents of the modern short story and then concentrate on the development of the form in the United States. Monthly tests. 6 s.h. (E) PROFESSORS HUBBELL AND GOHDES

167-168. English Prose, 1790-1830.—Selections from Burke, Godwin, Paine, Coleridge, Hazlitt, Lamb, Jane Austen, Scott, DeQuincey, and others. Special attention to the influence of the French Revolution and of French thought. Tests and a term paper each semester. 6 s.h. (E)

ASSOCIATE PROFESSOR PATTON

FOR SENIORS AND GRADUATES

201-202. Anglo-Saxon.—In the first semester, an introduction to the language, with the reading of prose and of some of the shorter poems; in the second semester, the *Beowulf*. 6 s.h. (E) PROFESSOR BAUM

[Not offered in 1945-46]

203-204. Chaucer.—Reading and interpretation of the text: in the first semester the principal *Canterbury Tales*; in the second, the *Troilus* and the minor poems. A reading report and a term paper. 6 s.h. (E)

PROFESSOR BAUM

205-206. Middle English.—Close study of selected texts, with attention to the development of the language and to the history of the literature from 1200 to 1400. A term paper each semester. 6 s.h. (E) PROFESSOR BAUM

207-208. English Literature, 1400-1550.—A survey of the period with a study of some of the special problems. 6 s.h. (E) PROFESSOR BAUM

[Not offered in 1945-46]

209. English Literature Other than Drama, 1550-1625.—A study of the principal authors (Sidney, Spenser, Donne, Bacon) and the prevailing types (sonnet, pastoral, epigram, etc.). Lectures, written and oral reports, and a term paper. 3 s.h. (E) PROFESSOR GILBERT

210. English Literature Other than Drama, 1625-1700.—The Metaphysical Poets, Cowley, Dryden, Butler, and the minor poets of the Restoration; and the prose of Browne, Burton, the Character Writers, Cowley, Dryden, Halifax, and Temple. Lectures and short reports. 3 s.h. (E)

ASSOCIATE PROFESSOR WARD

215-216. Elizabethan Drama.—Careful study of one major dramatist (Jonson or Beaumont and Fletcher) and extensive reading in the other writers (Heywood, Ford, Massinger, Marlowe, Middleton) with emphasis on the nature and qualities of their work in its historical background. Exposition of plays, reports, and a term paper each semester. 6 s.h. (E)

PROFESSOR GILBERT AND ASSISTANT PROFESSOR TALBERT

219-220. The Eighteenth Century.—Swift, Pope, Defoe, Addison, Steele, and others are studied in the first semester; in the second, Gray, Johnson, Boswell, Goldsmith, the letter writers, and the early Romantic poets. Lectures, oral reports, and a term paper each semester. 6 s.h. (E)

PROFESSOR IRVING

221-222. English Literature of the Early Nineteenth Century.—A survey of the principal writers and literary monuments from 1798 to 1830; in the first semester principally Wordsworth, Coleridge, and Lamb; in the second, Shelley, Byron, Keats, and Hazlitt. Occasional lectures, frequent classroom discussions of reading assignments, written and oral reports, and a term paper each semester. 6 s.h. (E) PROFESSOR WHITE

223-224. English Literature of the Later Nineteenth Century.—Some of the most important works of the period are discussed in class; the background is filled in by lectures and assigned reading. The first semester is devoted chiefly to Carlyle, Dickens, Thackeray, Tennyson, and Browning; the second semester to Arnold, Ruskin, Pater, George Eliot, Meredith, the Pre-Raphaelites, and Swinburne. A term paper each semester. 6 s.h. (E) PROFESSOR BAUM

227. Literary Criticism.—A study of the Greek and Roman critics, in chronological order but with emphasis on their permanent value rather than on the mere history; also the Continental and English critics to about 1700. Lectures, reports, and a term paper. 3 s.h. (E) PROFESSOR GILBERT

229-230. American Literature, 1800-1870.—The writers emphasized in the first semester are Emerson, Thoreau, and Hawthorne; in the second semester, Poe and Melville. In the first semester some attention is given also to Edwards, Franklin, Bryant, Longfellow, Holmes, Whittier, Lowell, and Parkman; and in the second semester, to Byrd, Jefferson, Freneau, Brown, Irving, Cooper, Kennedy, Simms, Timrod, and Lincoln. An oral report and a term paper each semester. 6 s.h. (E) PROFESSOR HUBBELL

231-232. Special Studies in American Literature.—An intensive study of Emerson's essays and poems, in the first semester; and in the second, of Whitman's *Leaves of Grass*, with some examples of his prose. Lectures, discussions, with one test and one term paper each semester. 6 s.h. (E)

[In 1945-46 only 232 (Whitman) will be offered; it will be given in the first semester. 3 s.h. (E)] PROFESSOR GOHDES

233-234. American Literature since 1870.—Selected works of the chief writers of the period, including Whitman, Lanier, Mark Twain, James, Howells, Emily Dickinson, Crane, Dreiser, and others. The lectures deal with the social background and with the careers of the leading authors. One test and one term paper each semester. 6 s.h. (E) PROFESSOR GOHDES

237. English Drama, 1642-1800.—The Heroic Play and the Comedy of Manners of the Restoration period; and the important plays, serious and comic, of the eighteenth century. Lectures, class discussions, and short reports. 3 s.h. (E) ASSOCIATE PROFESSOR WARD

247-248. American Literature of the Colonial Period.

ASSISTANT PROFESSOR LEARY

269-270. Southern Literature.—The principal writers discussed during the first semester are Byrd, Jefferson, Wirt, Kennedy, the Cooke brothers, Legaré, Simms, Timrod, Hayne, Longstreet and other humorists, and the poets of the Civil War. Considerable attention is paid to the historical and cultural background and to Northern and British authors who wrote about the South. An oral report and a term paper are required each semester. 6 s.h. (E)

[Not offered in 1945-46] PROFESSOR HUBBELL

NAVY V-12 COURSES

E1-2. English I and II.—Three discussion and writing periods each week for two terms. May be substituted for English 1-2. 6 s.h.

E3-4. English III and IV.—A study of notable contributions to the literature of ideas about man in his social relations. 6 s.h.

E5. English Literature.—An introduction to the major works of English literature. 3 s.h.

E6. American Literature.—An introduction to the major works of American literature. May be substituted for English 137. 3 s.h.

For E6 one of the following is a prerequisite: E3-4, E55 or 56, or E123 or 124. E3 was offered March-July, 1944.

DEPARTMENTAL MAJOR

All majors in English will center their work around one of five period courses. One additional English course will be closely related to this period course and one will not. Related work will be chosen carefully to support wherever possible the body of knowledge acquired in the English courses. Teachers in charge of the period courses will act as an advisory board for majors and assist them in the choice of English courses, related work, and electives.

Prerequisites: English 1 and 2.

Requirements for the Major: A major in English consists of twenty-four semester hours of credit distributed as follows: *Six* hours must ordinarily be devoted to either English 55-56 or English 63-64; *six* hours to one of five designated period courses (English 143-144, 219-220, 125-126, 131-132, or 137-138); *six* hours to a course or courses contiguous with or closely related to the period course chosen; and *six* hours to a course or courses not contiguous with or closely related to the period course chosen. At least six hours of these must be drawn from courses the material of which is predominantly English literature written earlier than 1800. Courses in Comparative Literature, Composition, Dramatics, and Speech may be counted as related work. So far as possible, students' programs will be made up of complete year courses.

FORESTRY

Students without a Bachelor's degree who are preparing for work in forestry as a profession should take the courses outlined under the Academic-Forestry Combination (see pages 65-66). However, with the consent of the instructor in charge, certain forestry courses may be elected by students in other curricula provided they have had adequate preparation (see *Bulletin of the School of Forestry*).

Members of the Sophomore, Junior, and Senior classes may elect the following course:

52. Principles of Forestry.—An introduction to forestry emphasizing the economic and social importance of forests and their influence on stream flow, water supply, soil, and erosion; brief studies of individual trees and the life history of forests and their reproduction, treatment, and protection; principal forest regions, and timber trees of United States; brief history of forestry in America and present-day forestry agencies. Work consists of lectures, assigned readings, and reports. 2 s.h. (w) ASSOCIATE PROFESSOR THOMSON
[Not offered in 1945-46]

GEOLOGY

ASSOCIATE PROFESSOR BERRY

Note: The courses in Geology are given on both the Navy and Woman's College schedules, but all courses meet on the West Campus except 64 which meets on the East Campus only.

51. General Geology.—This course is designed to give a general view of the surface features of the earth, their origin, structure, and materials. Illustrative materials are studied in the laboratory. Excursions are made to neighboring points where the principles of the science are studied in the field. Three one-hour lectures or recitations and one three-hour laboratory. 4 s.h. (w)
ASSOCIATE PROFESSOR BERRY

52. General Geology.—This course is designed to give some knowledge of the chief events of the earth's history. Excursions will be made to suitable neighboring localities. Three one-hour lectures or recitations and one three-hour laboratory. Prerequisite: Geology 51. 4 s.h. (w)
ASSOCIATE PROFESSOR BERRY

53. Physiography.—A detailed study of the processes at work on the land surface and the topographic forms produced by them under different climatic conditions. This course includes practice in the interpretation of topographic maps. Three one-hour lectures or recitations and one three-hour laboratory. Given both semesters but not open to students with credit for Geology 51. Limited to twenty-four students. 4 s.h. (w)
ASSOCIATE PROFESSOR BERRY

64. Map Reading and Construction.—The use of map scales, azimuths, meridians, and parallels, methods of location, interpretation of topographic maps with three weeks of practical instruction in the field. This course is planned to enable the student to understand the maps that are appearing with the daily war bulletins, and as an introduction to possible work with cartography divisions of airlines and planning departments. One hour of lecture and three hours of laboratory each week, given both semesters. 2 s.h. (E)
ASSISTANT PROFESSOR LEMERT

101-102. Mineralogy.—This course is devoted to a study of the fundamentals of crystallography and the crystal groups, using crystal models and crystallized minerals. Followed by the systematic study of about 175 important minerals. Determinative work includes exercises on sight recognition, identification by blowpipe, and other physical and chemical tests. Excursions will be made to neighboring mineral localities. Three two-hour periods. Prerequisite: Chemistry 1-2 (can be taken concurrently). 8 s.h. (w)
ASSOCIATE PROFESSOR BERRY

151. Economic Geology.—Study of world distribution, geologic occurrence, and uses of important mineral deposits. Three one-hour lectures or recitations and one three-hour laboratory. Prerequisite: Geology 101-102. 4 s.h. (w)
ASSOCIATE PROFESSOR BERRY

152. Introductory Paleontology.—Systematic study of invertebrate paleontology, dealing mainly with generic characters of the fossil invertebrates and their use in identifying and correlating geologic formations. Three one-hour lectures or recitations and one three-hour laboratory. Prerequisites: Geology 51, 52, and Zoology 1. 4 s.h. (w)
ASSOCIATE PROFESSOR BERRY

DEPARTMENTAL MAJOR

Prerequisites: None for Geology 51. Chemistry 1-2 for Geology 101-102; Zoology 1 for Geology 152.

Major Requirements: Geology 51, 52, 101-102, 151, 152.

GERMAN LANGUAGE AND LITERATURE

PROFESSOR VOLLMER, CHAIRMAN; ASSISTANT PROFESSOR MAXWELL, DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR WILSON, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSOR KRUMMEL; DR. SHEARS

All courses except Elementary and Intermediate German may be taken for one semester only, when circumstances make it advisable.

1-2. Elementary German.—6 s.h. (E & W)

ASSISTANT PROFESSOR WILSON AND STAFF

3-4. Intermediate German.—6 s.h. (E & W)

PROFESSOR KRUMMEL AND STAFF

51-52. Third-Year German.—For Freshmen and Sophomores primarily. A transition course between Intermediate German and the literary and scientific courses of the 100 and 200 groups. **6 s.h.**

101-102. Elementary German.—For Juniors and Seniors primarily. **6 s.h.** (w) This course proceeds more rapidly than German 1-2.

103-104. Intermediate German.—For Juniors and Seniors primarily. **6 s.h.** (w) This course proceeds more rapidly than German 3-4.

Courses 107 to 214 will be offered on the East or West Campus as the necessity for them arises. In the February, 1945, term (East Campus) German 118, 128, 204, and 212 will be offered. Courses offered in all other semesters beginning in 1945 and 1946 will be announced later.

107. Scientific German.—The German language as used in the various contemporary sciences. **3 s.h. (w)**

PROFESSOR KRUMMEL AND ASSISTANT PROFESSOR WILSON

108. Advanced Scientific and Medical German.—Advanced scientific German with special emphasis on medical German. **3 s.h. (w)**

PROFESSOR KRUMMEL AND ASSISTANT PROFESSOR WILSON

109-110. German Prose Fiction.—Origin and development of the German novel with special emphasis on the nineteenth century. **6 s.h.**

PROFESSOR KRUMMEL

111-112. Introduction to the Classic Drama.—Selected dramas from Lessing, Goethe, and Schiller. **6 s.h.**

ASSISTANT PROFESSOR WILSON

113-114. Nineteenth-Century German Poetry.—In the first semester the lyric is studied and in the second semester the ballad. **6 s.h.**

ASSISTANT PROFESSOR WILSON

115-116. German Drama of the Nineteenth Century.—A study of leading dramatists from Kleist to Hauptmann. **6 s.h.**

PROFESSOR KRUMMEL

117-118. German Conversation.—A course in writing and speaking German for properly qualified students. **6 s.h.**

119-120. German Literature in English Translation.—The great epochs in German literature studied through English translations. **6 s.h.**

PROFESSOR VOLLMER

121-122. Schiller.—A study of his life and works in relation to the culture of the eighteenth century. **6 s.h.**

PROFESSOR VOLLMER

123-124. Modern German Short Story.—Development and technique of the novelle. **6 s.h.**

DR. SHEARS

125-126. Contemporary German Literature.—A study of representative works of the twentieth century. **6 s.h.**

DR. SHEARS

127-128. Survey of Nineteenth-Century German Literature.—Representative selections from all important literary schools from Romanticism to Contemporary Realism. **6 s.h.**

PROFESSOR VOLLMER

129-130. Military and Service German.—A study of descriptive and documentary material in the German language as used in military, political, and diplomatic writings of recent years. Open to all properly qualified students. **3 s.h. per semester. (w)**

ASSISTANT PROFESSOR WILSON

201-202. **Goethe.**—A study of Goethe's life and works, with special emphasis upon the broader aspects of his ever-widening interests and literary activities. 6 s.h. PROFESSOR KRUMMEL

203-204. **Leibnitz to Romanticism.**—Eighteenth-century German literature in its relation to contemporary European philosophy. 6 s.h. PROFESSOR VOLLMER

205-206. **Middle High German.**—The language and literature of Germany's first classical period. 6 s.h. PROFESSOR VOLLMER

207-208. **German Romanticism.**—The course covers the entire field of German romanticism from 1800 to 1850. 6 s.h. PROFESSOR VOLLMER

209-210. **Kleist, Grillparzer, and Hebbel.**—The dramatic development in Germany after Schiller. 6 s.h. PROFESSOR KRUMMEL

211-212. **Heinrich Heine and Young Germany.**—Heine's life and thought, culminating in the Jungdeutschland Movement. 6 s.h. PROFESSOR VOLLMER

213-214. **Literature of the Empire, 1871-1914.**—A study of the literature of this period as determined particularly by the philosophical, social, political, and religious factors. 6 s.h. PROFESSOR VOLLMER

NAVY V-12 COURSES

Foreign Language 1-2 may be substituted for a first-year language.

Foreign Language 3-4 may be substituted for a second-year language.

Foreign Language 5, 6, and 7 may be substituted for third-year courses.

DEPARTMENTAL MAJOR

1. *Prerequisites:* German 1-2 and 3-4.

2. *Major Requirements:* Twenty-four hours in the German Department. Twelve of these must be selected from the 200 courses. The remaining twelve may be selected from German 51-52 and any courses in the 100 group except 101-102, 103-104, and 119-120.

HONORS IN GERMAN

Prerequisites:

1. For admission to candidacy for Honors in German, a student must have begun the study of the language not later than the Freshman year in college.

2. A student who has completed at least twelve semester hours of college German by the end of the Sophomore year with a grade of "A" or "B" (equivalent courses in secondary schools or in other colleges may be presented as substitutes) is eligible to apply to the Departmental Committee for permission to read for Honors in German.

General Rules:

I. The Departmental Honors Program constitutes the work of the Honors student during the Junior and Senior years. This program shall be the equivalent of sixty semester hours of work.

II. *Work in the German Department:* The amount of work taken in the German Department shall be the equivalent of thirty-six semester hours. Of this the work done in the Honors tutorials shall count twelve hours, six hours for the Junior year and six hours for the Senior year. The comprehensive examinations at the end of the Senior year are counted as part of this twelve semester hours credit.

III. *Related Work*: The related work, which constitutes at least two fifths of the Honors program, that is, the equivalent of twenty-four semester hours, must be distributed among not less than two departments, unless the Departmental Committee gives special permission for the student to take his related work in one department.

IV. *General Honors Examinations*: In May of the Senior year the candidate will be given a general written examination, conducted by his Adviser, on his Honors Reading. A general oral examination, conducted by the Departmental Committee and presupposing a general knowledge of the development of German culture and civilization and a practical ability in the use of the German language, will also be conducted in May.

GOVERNMENT

See courses listed under Political Science.

GREEK

DR. ROSE, SUPERVISOR OF FRESHMAN INSTRUCTION; ASSISTANT PROFESSOR WAY;
DR. TRUESDALE

Courses 15, 121-122, 141-142, and 131 are entirely in English and require no knowledge of the Greek language. The purpose in offering them is to give a wider circle of students some conception of the debt which modern civilization owes to the Greeks.

1-2. *Course for Beginners*.—Open to all students. 6 s.h. (w & e)

ASSISTANT PROFESSOR WAY AND DR. ROSE

53-54. *Xenophon*.—*Anabasis*, Books I-IV. Open to students who have completed course 1-2. 6 s.h. (w & e)

DR. ROSE

105-106. *Homer*.—*Iliad*, Books I-III. *Plato*.—*Apology* and *Crito*. Open to students who have completed courses 1-2 and 53-54 or their equivalents. 6 s.h. (w & e)

DR. ROSE

107-108. *Euripides*.—*Medea*. *Sophocles*.—*Oedipus Tyrannus*. *Aristophanes*. *Clouds*. Open to students who have completed the required preliminary work. 6 s.h. (w & e)

ASSISTANT PROFESSOR WAY

15. *Mythology*.—A study of Greek mythology and the use made of it in art and English literature. No knowledge of the Greek language is required. Open to Freshmen as an elective in either semester. 3 s.h. (w & e)

DR. ROSE

115-116. *Sight Reading in Greek*.—Three hours per week through the year. 4 s.h. (w)

ASSISTANT PROFESSOR WAY AND DR. ROSE

117-118. *Greek Prose Composition*.—The character of this course is determined by the needs of the students who elect it. 3 s.h. (w)

DR. ROSE

121-122. *Greek Literature in English Translation*.—The purpose of this course is to give a general survey of the life and civilization of the Greeks, especially to those who have never studied the language but wish to become acquainted with some of the choicest portions of the literature by the use of translations. It is, however, open as an elective to all Juniors and Seniors, whether they know Greek or not. First, the *Iliad* and the *Odyssey* are read in translation and illustrated with stereopticon views of the excavations and discoveries at Troy and other cities of the Aegean age; then, many of the extant plays of the three great tragic poets are studied in English translations. 6 s.h. (w & e)

DR. ROSE

Students may elect course 122, whether they have taken course 121 or not.

141-142. Greek Art.—Lantern lectures designed to provide a comprehensive survey of the development of Greek sculpture and Greek architecture in all periods. The course is opened by a preliminary account of Egyptian, Mesopotamian, and Aegean backgrounds. Open to Seniors, Juniors, and (by arrangement) Sophomores. No knowledge of Greek is required. **6 s.h. (E)**

ASSISTANT PROFESSOR WAY

Students may elect course 142, whether they have taken course 141 or not.

131. History of Greece.—The history of the Greek world from the Late Bronze Age to the Macedonian conquest. Open to Seniors, Juniors, and (by arrangement) Sophomores. No knowledge of Greek is required. **3 s.h. (W & E)**

ASSISTANT PROFESSOR WAY

203-204. Homer.—*Odyssey*. **Pindar and Bacchylides.** **6 s.h. (W)**

ASSISTANT PROFESSOR WAY

207-208. Greek Orators.—Selected speeches. **6 s.h. (W)**

ASSISTANT PROFESSOR WAY

209-210. Plato.—*Symposium*, *Protagoras*, and parts of the *Republic*. **6 s.h. (W)**

ASSISTANT PROFESSOR WAY

Only one of the three year-courses for Seniors and Graduates (203-210), listed above, is offered each year.

243. Athenian Topography.—The topography and monuments of ancient Athens. **3 s.h. (W)**

ASSISTANT PROFESSOR WAY

244. Greek Epigraphy.—Lectures on the history of the alphabet and the development of the local Greek alphabets, followed by extensive reading of inscriptional texts in facsimile. **3 s.h. (W)**

ASSISTANT PROFESSOR WAY

245. Greek Dialects.—A linguistic study of transliterated inscriptions illustrative of the major Greek dialects. The interrelations of the dialectal forms are examined with reference, where possible, to their origin in proto-ethnic Greek. **3 s.h. (W)**

ASSISTANT PROFESSOR WAY

246. Greek Historical Inscriptions.—The more valuable historical inscriptions are read in chronological order and interpreted in their general bearing upon the course of Greek history. **3 s.h. (W)**

ASSISTANT PROFESSOR WAY

247-248. Greek Archaeology.—Advanced course in the general field for Seniors and Graduates, comprising architecture, sculpture, vases, and the minor arts. **6 s.h. (W)**

ASSISTANT PROFESSOR WAY

Of the courses numbered from 243 to 248 only two semester-courses are offered each year.

257. Social and Cultural History of the Hellenistic World from Alexander to Augustus.—Lectures, readings, and discussions. **3 s.h. (W)**

PROFESSOR ROGERS

NAVY V-12 COURSES

Foreign Language 1-2 may be substituted for a first-year language.

Foreign Language 3-4 may be substituted for a second-year language.

Foreign Language 5, 6, and 7 may be substituted for third-year courses.

DEPARTMENTAL MAJOR

Prerequisites: Greek 1-2.

Major Requirements: A candidate for a major in Greek must complete twenty-four semester hours, including the following courses: Greek 53-54, 105-106, 107-108, 117-118, and 131.

DEPARTMENTAL HONORS PROGRAM

For admission to candidacy for Honors in Greek the student must have completed Greek 1-2 and 53-54 or their equivalent.

Candidates for Honors must complete the following program of work:

(a) Greek 105-106, 131, 141-142, 107-108, 122, and 117-118.

(b) Four year-courses in related departments.

(c) The Honors Reading. This is tutorial work in which the student is required to read assigned portions of Greek literature by himself, to write papers on topics related to his reading, and to meet the Honors Adviser in weekly conferences for the discussion of the literature that he is reading independently. For the Honors Reading a credit of nine semester hours is given.

HEALTH AND PHYSICAL EDUCATION

TRINITY COLLEGE AND THE COLLEGE OF ENGINEERING

MR. WADE, DIRECTOR; MR. CAMERON, ACTING DIRECTOR; MESSRS. AYCOCK, CALDWELL, CARD, CHAMBERS, COOMBS, COX, CRICHTON, FOGLEMAN, GERARD, HAGLER, LEWIS, MONTFORT, PERSONS, POTTER, STANLEY

REQUIRED PHYSICAL EDUCATION FOR MEN

Six hours of credit in physical education, with an average grade of "C," must be completed for graduation. Three hours a week through the Sophomore year are needed to fulfill this requirement. All students must enroll in physical education until they have completed the requirement.

All students are required to take a medical and physical examination before registering. Those who reveal pronounced physical deficiencies are excused from regular courses in physical education and are required to take the course entitled "Individual Corrective Activities." Students assigned to this work continue to take it until they have been pronounced reasonably sound. Thereupon, they withdraw from this course and register in the regular physical education course. A student may take from one to eight semesters of this special work. Students without defects may elect to take any four courses they choose. In general, these activities fall in one of three groups: those developing physical efficiency; those affording competitive contests; and those occupying recreative or leisure time. Since a student is not allowed to take the same course twice, he covers four courses in the two years of required work.

Students may receive physical education credit for participation in Freshman and varsity intercollegiate sports.

A regulation uniform, consisting of shirt, trunks, supporter, socks and sweat clothes, will be furnished each student upon payment of the Equipment and Recreation Fee and Laboratory Fee (see pages 172 and 173). Each student is required to provide rubber-soled shoes.

PHYSICAL EDUCATION CLASSES

1-2. Basketball.—1½ s.h.	MR. CALDWELL
3-4. Boxing.—1½ s.h.	MR. POTTER
5-6. Individual Corrective Activities.—1½ s.h.	MR. AYCOCK
7-8. Handball.—1½ s.h.	MR. GERARD
9-10. Softball.—1½ s.h.	MR. STANLEY
11-12. Soccer Football.—1½ s.h.	MR. GERARD
13-14. Swimming.—1½ s.h.	MR. PERSONS

15-16. Touch Football.—1½ s.h.	MR. GERARD
17-18. Tennis.—1½ s.h.	MR. COX
19-20. Tumbling Stunts.—1½ s.h.	MR. CARD
21-22. Postural Training.—1½ s.h.	MR. AYCOCK
25-26. Wrestling.—1½ s.h.	MR. POTTER
27-28. Apparatus Stunts.—1½ s.h.	MR. CARD
49. Lacrosse.—1½ s.h.	MR. POTTER
55-56. Individual Corrective Activities.—1½ s.h.	MR. AYCOCK
59. Baseball.—1½ s.h.	MR. COOMBS
61-62. Golf.—1½ s.h.	MR. CRICHTON AND MR. HAGLER
63-64. Advanced Tennis.—1½ s.h.	MR. COX
65-66. Advanced Apparatus.—1½ s.h.	MR. AYCOCK

INTERCOLLEGIATE ATHLETIC SPORTS

FRESHMEN

- 30. Baseball.—1½ s.h.
- 32. Basketball.—1½ s.h.
- 37. Football.—1½ s.h.
- 38. Football.—1½ s.h.
- 41. Cross Country.—1½ s.h.
- 42. Swimming.—1½ s.h.
- 44. Tennis.—1½ s.h.
- 46. Track.—1½ s.h.
- 48. Wrestling.—1½ s.h.
- 50. Lacrosse.—1½ s.h.

VARSITY

- 70. Lacrosse.—1½ s.h.
- 80. Baseball.—1½ s.h.
- 82. Basketball.—1½ s.h.
- 83. Basketball.—1½ s.h.
- 87. Football.—1½ s.h.
- 88. Football.—1½ s.h.
- 90. Golf.—1½ s.h.
- 91. Cross Country.—1½ s.h.
- 92. Tennis.—1½ s.h.
- 93. Soccer Football.—1½ s.h.
- 94. Swimming.—1½ s.h.
- 95. Track.—1½ s.h.
- 96. Track.—1½ s.h.
- 98. Wrestling.—1½ s.h.

ELECTIVES IN PHYSICAL EDUCATION

Students in Group VI A may elect fifteen semester hours from the courses offered below. Six semester hours may be elected from the courses listed under Special Methods in Physical Education and nine semester hours may be elected from the courses listed under Theory and Practice in Physical Education.

These courses are arranged to meet the increasing demand for teachers who are qualified to coach and teach physical education. These courses should be selected with the advice of the Director of Undergraduate Studies in order to meet the needs of the individual.

SPECIAL METHODS IN PHYSICAL EDUCATION

163. Athletic Coaching in Secondary Schools.—Theory and practice in the fundamentals of coaching baseball and track. Prerequisites: courses 30 or 80 and 21-22 or 46 or 96 or their equivalent. Open to Sophomores, Juniors, and Seniors. 3 s.h.

MR. COOMBS, MR. CHAMBERS

164. Athletic Coaching in Secondary Schools.—Theory and practice in the fundamentals of coaching football and basketball. Prerequisites: courses 37 or 87 and 1-2 or 32 or 82 or their equivalent. Open to Sophomores, Juniors, and Seniors. 3 s.h. MR. CAMERON, MR. STANLEY

THEORY AND PRACTICE IN PHYSICAL EDUCATION

65. History and Principles of Physical Education.—A study of the objectives and principles upon which physical education is based. The history of physical education is studied in order to show the changes in objectives, principles, and methods and as an aid in the interpretation of trends. Open to Sophomores, Juniors, and Seniors. 3 s.h. MR. AYCCK, MR. GERARD

172. Recreational Leadership.—Combative contests, games, mass athletics, supervision of community recreation. Open to Sophomores, Juniors, and Seniors. 3 s.h. MR. GERARD

173. Individual Gymnastics.—The diagnosis of abnormal cases, including overweight, underweight, post-operative, postural, and flat-foot cases, with the prescription of exercise for their correction. Open to Sophomores, Juniors, and Seniors. 3 s.h. MR. AYCCK

182. The Administration of Health and Physical Education in Secondary Schools.—Presents the everyday problems that arise in the experience of the teacher of health and physical education. Open to Juniors and Seniors. 3 s.h. MR. AYCCK, MR. GERARD

187. School Programs of Physical Education.—Open to Juniors and Seniors. 3 s.h. MR. GERARD

190. Protective Practices in Physical Education.—A study of safety measures including training and first aid. Open to Juniors and Seniors. 3 s.h. MR. CHAMBERS

NAVY V-12 COURSES

Navy V-12 courses may be substituted for required physical training.

WOMAN'S COLLEGE

ASSOCIATE PROFESSOR GROUT, CHAIRMAN; MRS. BERRY, MISS LEWIS, MISS LITTLE, MISS MCKEE, MISS VAN TUYL, AND MISS WEEKS

PHYSICAL EDUCATION ACTIVITIES

Six hours of credit in physical education, with an average grade of "C," must be completed for graduation. Two hours a week through the Junior year are needed to fulfill this requirement.

All students are given a physical and medical examination upon entering and at intervals throughout their college course. Classes in individual gymnastics and light sports are arranged for those who should not take the more active work.

For information concerning gymnasium costumes and fees refer to pages 170 and 173.

October to December: Badminton, bowling, diving, golf, hockey, recreational sports, riding, soccer, swimming, tennis, volleyball.

December to March: Badminton, basketball, body mechanics, bowling, conditioning exercises, folk and square dancing, social dancing, modern dance, rhythm fundamentals, fencing, individual gymnastics, life saving, swimming.

March to May: Archery, badminton, bowling, diving, fencing, golf, life saving, modern dance, riding, softball, swimming, tennis, track and field activities.

PHYSICAL EDUCATION THEORY

Students in Group VI A may receive academic credit for all courses listed below.

Students in Group VI B may receive academic credit for Physical Education 102, Health Education 41 and 112.

Students in all groups may receive credit for Physical Education 105-106, 108, and Health Education 41, 112, and 115.

101. History and Principles of Physical Education.—An historical survey of physical education stressing the relation between the types of activity developed and the social and political ideals of different nations and periods. A study of the principles upon which physical education is based. Analysis of successful teaching in physical education. 2 s.h. (E)

ASSOCIATE PROFESSOR GROUT

102. The Teaching of Physical Education in Elementary Schools.—A study of methods and materials used in teaching physical education to children; includes discussion on the theory of physical education, and practice in teaching elementary school activities. Required of women students in Group VI B. 3 s.h. (E)

MISS WEEKS

105-106. Methods and Materials in Recreation.—A course intended to familiarize students with recreation activities and methods of organizing groups in these activities. Special emphasis is placed on recreation leadership training for war-time service. General fields covered are: Social Activities, Music Activities, Folk and Square Dancing, Games and Sports, Arts and Crafts, Drama Activities, Nature and Outing Activities. Open to Juniors and Seniors without prerequisite. Five periods per week throughout the year. 6 s.h. (E)

Supervisor: ASSOCIATE PROFESSOR GROUT. Teachers: ASSOCIATE PROFESSOR ADDOMS, MISS McKEE

108. Problems in Community Recreation.—A study of the historical development of organized recreation; recent trends and theories in recreation; qualifications and preparation for leadership; recreational interests of adolescents and adults; the administration of playgrounds and community centers, including the study of local and state recreation departments; materials and methods for directing recreational activities. Open to Juniors and Seniors without prerequisite. 3 s.h. (E)

MISS McKEE

114. Kinesiology.—A study of the muscles, bones, and joints concerned in physical exercise. Analysis of fundamental movements with emphasis on the development of normal posture and efficient body movement. Required of students in physical education who plan to enter the field of physical therapy. 3 s.h. (E)

MISS LITTLE

118. Orthopedic and Remedial Physical Education.—The study of body mechanics, corrective exercise and massage. Purpose and technique of physical examination and evaluation of results. 3 s.h. (E)

MISS LITTLE

119. Organization and Administration of Physical Education.—Curriculum building in physical education. A study of state and city programs. Tests and measurements in physical education. Co-ordination of health education and physical education. Administrative problems of the high-school teacher and public school supervisor. Plans and equipment for gymnasias and playgrounds. 2 s.h. (E)

ASSOCIATE PROFESSOR GROUT

181-182. Methods and Materials in Physical Education.—A course in the theory and practice of teaching and officiating in games and sports and of teaching rhythmic activities for girls and women. 6 s.h. (E)

MISS LEWIS AND STAFF

185-186. **Advanced Methods and Materials in Physical Education.**—A continuation of 181-182. Open to Seniors preparing for full-time teaching in physical education. 6 s.h. (E) MISS LEWIS AND STAFF

HEALTH EDUCATION

41. **Personal Health Problems.**—A study of health problems from the point of view of the student in college and as a member of society. Prerequisite for students preparing to teach physical education. *Either semester.* 3 s.h. (E) MRS. BERRY

112. **School Health Problems.**—An introduction to school health problems from the point of view of the classroom teacher. This course includes physical inspection of school children, communicable disease control, teacher health, school plant, safety, and healthful classroom procedures. Required of all students in Group VI B and of all students preparing to teach physical education in secondary schools. 3 s.h. (E) MRS. BERRY

115. **Community Health Problems.**—A course designed to acquaint the student with problems in community health. Subjects to be considered include environmental health hazards and their control, methods of community attack on specific diseases and disorders, health problems specific to certain groups, and official and nonofficial agencies concerned with public health. Prerequisite: Health Education 41. 3 s.h. (E) MRS. BERRY

REQUIREMENTS FOR TEACHING HEALTH AND PHYSICAL EDUCATION IN PUBLIC SCHOOLS

The following requirements have been set up for students in Group VI A who wish to qualify as full-time or part-time teachers of Health and Physical Education. These requirements meet the standards of the North Carolina Department of Public Instruction for certification in Health and Physical Education and of most of the other states represented in the student body. Students preparing to teach in any state are advised to check with the department as to specific requirements.

Prerequisites: Zoology 1-2, Health Education 41.

Thirty semester hours, including Physical Education 101, 118, 119, 181-182, 185-186, Health Education 112, Zoology 53, 151.

Education Requirements: Consult Department of Education.

Students preparing to teach physical education and health on a part-time basis only are advised to take at least the following program:

Prerequisite: Health Education 41.

A minimum of fifteen semester hours including Physical Education 101, 119, 181-182, Health Education 112 and a physical education elective, three semester hours.

Education Requirements: Consult Department of Education.

HISTORY

PROFESSOR LAPRADE, CHAIRMAN; ASSOCIATE PROFESSOR NELSON, DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR HAMILTON, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS BALDWIN, CARROLL, CLYDE, LAN-
NING, AND SYDNOR; ASSOCIATE PROFESSORS MANCHESTER, ROBERT,
AND WOODY; ASSISTANT PROFESSORS MCCLOY, QUINN, ROPP,
AND STILL; DRS. BREWSTER, FERGUSON, PARKER,
AND WATSON; MESSRS. MONTGOMERY
AND VAN DUSEN

The undergraduate courses in history are designed to afford (1) an introduction to the study of history by a consideration of the history of the mod-

ern world; (2) a more intensive study of general American history; (3) opportunities for more advanced study of phases of American, English, European, Hispanic-American, and Eastern history which interest the teachers and students.

Course 1-2 or 51-52 is a prerequisite for all other courses; courses 91 and 92 are prerequisite for courses 114, 119-120, 121-122, 153-154, 209-210, 215-216, 263-264, 265-266. Sophomores who took only one semester of course 1-2 in the Freshman year may be admitted to courses 91 and 92, 61-62, 63-64, or 65-66, provided they made a grade of "B" or above on the semester taken. Courses offered for Seniors and Graduates are limited to twenty-five students; Juniors may not elect them without special permission from the Department and the Council on Graduate Instruction. Sophomores must obtain permission of the instructor in order to be admitted to courses numbered above 100; students who are not fully qualified Sophomores will not be admitted to these courses.

1-2. Historical Background of the World Today.—An introduction to the study of modern history with special reference to the issues in the present world crisis. The work in the first semester, covering the period 1500-1871, deals with such topics as the civilization of the Italian city states, the revolt from the Roman Church and its consequences, the commercial revolution and the early expansion of Europe into Asia and America, the balance of power and the rise of national states, the French Revolution and Napoleon, the industrial revolution, the Holy Alliance and the New World, the unification of Italy and the German Empire. In the second semester attention is given to such subjects as the Western infiltration of eastern Asia and the rise of Japan, the partition of Africa, Latin America and the rise of the United States as a world power, national rivalries and alliances preceding the first World War, the consequences of the peace and the rise of the totalitarian states, the second World War. 6 s.h. (w & e)

Sophomores and Juniors may not be admitted to this course. Courses 1 and 2 are each offered in both semesters. Either semester may be counted separately as an elective but not as fulfilling the minimum uniform requirements or as a basis of further work in history.

PROFESSORS CLYDE AND LAPRADE; ASSOCIATE PROFESSOR NELSON; DR. BREWSTER

51-52. Historical Background of the World Today.—An introductory course for Sophomores, Juniors, and Seniors dealing with the topics indicated in the description of course 1-2. 6 s.h. (w & e)

PROFESSOR BALDWIN AND DR. BREWSTER

[Not opened to Freshmen or to students who have had course 1-2.]

61-62. Russia and the Near East from Peter the Great to Stalin.—The rise of Russia and its effect on international relations; the breakup of the Ottoman Empire and the formation of the Balkan states; the abolition of serfdom and the Industrial Revolution in Russia; the Russian Revolution; international, agrarian, and industrial policies of the Soviet Union; the Danube basin and the revival of German imperialism in the Near East; Arabian nationalism and the conflict of England and Italy in the Mediterranean area. Prerequisite: course 1-2 or 51-52. 6 s.h. (w) ASSISTANT PROFESSOR ROPP

[Not offered in 1945-46]

63-64. Sea Power and Modern Navies.—The work in the first semester, covering the period from the Spanish Armada to the end of the nineteenth century, deals with such topics as the importance of sea power in the wars and rivalries of the sixteenth, seventeenth, eighteenth, and early nineteenth centuries, the rise of the blockade, the shifts from sails to steam and from wood to iron. Among the topics treated in somewhat greater detail in the second semester are the development of the navies of the United States, Great

Britain, Germany, and Japan in the twentieth century as influenced by national policies and by the principal wars in which these nations participated, the rise of submarines and air power. 6 s.h. (w) ASSISTANT PROFESSOR ROPP

Sophomores, Juniors, and Seniors regularly enrolled in the N.R.O.T.C. may elect this course without the necessity of first taking course 1-2 or 51-52.

[Not offered in 1945-46; see course N3 below.]

65-66. **The Social and Cultural History of Western Europe in the Seventeenth and Eighteenth Centuries.**—6 s.h. (w) ASSISTANT PROFESSOR McCLOY

91. **Political and Social History of the United States to 1850.**—A general study of the development of the United States, prefaced by a brief review of the Colonial era, covering the period from the Revolution through the Compromise of 1850. 3 s.h. (w & e)

PROFESSOR SYDNOR; ASSOCIATE PROFESSORS ROBERT AND WOODY;
DR. BREWSTER, AND MR. VAN DUSEN

92. **Political and Social History of the United States since 1850.**—A consideration of the sectional conflict and its aftermath; the rise of the United States as an industrial nation and a world power; the social, economic, and political implications of participation by the United States in the world wars of the twentieth century. 3 s.h. (w & e)

PROFESSOR SYDNOR; ASSOCIATE PROFESSORS ROBERT AND WOODY;
DR. BREWSTER, AND MR. VAN DUSEN

Note: In courses 91 and 92 no texts are required, but each student pays a class fee of \$3.00 per semester with which all books to be read are purchased and placed in the libraries. This fee is collected through the Treasurer's Office.

101-102. **Early European Civilization.**—A study of the development in Western Europe of the institutions and culture of ancient times and the middle ages. 6 s.h. (e) ASSISTANT PROFESSOR QUINN

Sophomores who made an average grade of "B" or more on course 1-2 may be admitted to this course.

105-106. **English Constitutional History.**—A history of England with emphasis on constitutional aspects. This course is required of students in the Pre-Legal Group in the Junior or Senior year. 6 s.h. (w)

ASSISTANT PROFESSOR HAMILTON

Students who have had course 123-124 may not receive credit for this course.

107-108. **Social and Cultural History of England.**—A study of English history from the fourteenth century to the present time in an effort to arrive at a synthesis of social and political events and thus provide a background for the study of English literature. Emphasis is placed on the ages of Chaucer, Shakespeare, and Milton; the eighteenth and early nineteenth centuries; the reign of Victoria and the twentieth century. 6 s.h. (e) DR. FERGUSON

Sophomores who made an average grade of "B" or above on course 1-2 may be admitted to this course.

[Not offered in 1945-46]

109-110. **Political and Cultural Foundations of Modern Europe, 1400-1648.**—Attention is given to the decline of feudal society and the age of faith; the rise of diplomacy and the states-system; humanism and the republic of letters; science and art in the times of Lorenzo de' Medici, Erasmus, Montaigne, Francis Bacon; religious conflict and the idea of tolerance. 6 s.h. (w)

[Not offered in 1945-46]

ASSOCIATE PROFESSOR NELSON

114. **History of the United States since Reconstruction.**—Reconstruction and its aftermath; cultural, political, and economic development since 1876, agrarian and labor problems, the rise of large industry, the Spanish War and imperialism, the World War, and post-bellum problems. Prerequisites: courses 91 and 92. 3 s.h. (w)

PROFESSOR LANNING

[Not offered in 1945-46]

119-120. Social and Cultural History of the United States.—A study of American life and manners with emphasis on trends of literary and artistic expression, on religious, educational, and reform movements, and on the social effects of a changing economy. Prerequisites: courses 91 and 92. 6 s.h. (w)
[Not offered in 1945-46] ASSOCIATE PROFESSOR ROBERT

121-122. The Church in American History.—Among the subjects considered are the relation of theology and church government to political theory and practice, the social and political results of the Great Awakening and of ecclesiastical controversies, the part played by the Church in the American Revolution and in the making of state constitutions, in education, westward expansion, in the reform movements of the nineteenth century, labor controversies, the Civil and World Wars, and internationalism. Prerequisites: courses 91 and 92. 6 s.h. (E)
[Not offered in 1945-46] PROFESSOR BALDWIN

123-124. English History.—A study in the first semester of the development in England of the institutions and habits of life characteristic of the nation and in the second of the extension of English influence throughout the world in the eighteenth, nineteenth, and twentieth centuries. 6 s.h. (E)
PROFESSOR LAPRADE

Students who have had course 105-106 may not receive credit for this course.

125. The Ancient Regime, the French Revolution, and Napoleon.—A study of the intellectual defenses of the Ancient Regime, the crumbling of these defenses during the eighteenth century, the Revolution and recent interpretations of that event, the rise and decline and fall of Napoleon. Readings are assigned from the works of Locke, Voltaire, Montesquieu, and Rousseau; special attention is given to the fall of Napoleon. 3 s.h. (w) DR. PARKER
[Not offered in 1945-46]

126. The Congress of Vienna and the Rise of the European Nations to 1870.—A study of European history from the Congress of Vienna through the Franco-Prussian War emphasizing the growth of nationalism and the struggle of liberalism against conservatism, including attention to the Industrial Revolution, socialism, and Darwinism. Readings are assigned from Mill, Mazzini, Marx, and Darwin; special attention is given to the diplomacy of Cavour and Bismarck. 3 s.h. (w) DR. PARKER
[Not offered in 1945-46]

127. History of Latin America Through the Formation of the National Governments.—3 s.h. (E) PROFESSOR LANNING

128. Inter-American Affairs.—This course treats the relations of the Latin-American states with each other and with the United States with the design of explaining the current significance of Latin America. Chief emphasis is placed upon social problems and movements common to all the republics and upon the role of the United States in Latin-American affairs, including such topics as American interventions; contributions of the United States to Latin-American life in such matters as public health; Pan-Americanism; Pan-Hispanism; foreign penetration and ideologies; the cultural and commercial aspects of the Good Neighbor Policy; Latin-American states in the World War and the present conflict. 3 s.h. (E) PROFESSOR LANNING

129-130. European Expansion Overseas.—In the first semester attention is given to the age of discovery and exploration, the origin and development of the great European empires overseas, and the influence of this movement on the peoples of Western Europe. The work in the second semester deals with the decline of the mercantile empires of the eighteenth century, the rise of free-trade imperialism in the nineteenth century, seapower as a factor in European expansion, and the revival of mercantile imperialism in the late nineteenth and the twentieth centuries. 6 s.h. (w) ASSOCIATE PROFESSOR MANCHESTER

Ancient History.—Greek 131—Latin 131-132.—See Departments of Greek, Latin and Roman Studies. These courses do not count toward a major in history. (w)

135. Main Currents in European History, 1815-1914.—3 s.h. (w)

PROFESSOR CARROLL

136. Europe since 1914, Including the Rise of the Totalitarian States, Russia, Italy, and Germany; the Second World War.—3 s.h. (w)

PROFESSOR CARROLL AND ASSISTANT PROFESSOR HAMILTON

141-142. The Far East from Commodore Perry to Chiang Kai-shek.—Historical interpretations of the role of Eastern Asia in the present World War with attention to such topics as Western imperialism in China and Japan in the nineteenth century; the rise of Japan as a military and industrial power; the emergence of militant Chinese nationalism; the fusion of the Far Eastern and the European wars into a world conflict. **6 s.h. (E)**

PROFESSOR CLYDE

[Not offered in 1945-46]

153-154. The History of the South.—A study, beginning in the Colonial period, of the development of the Southern part of the United States with particular attention to its distinctive characteristics and institutions and to their influence in shaping Southern attitudes toward major questions of national policy. **6 s.h. (E)**

PROFESSOR SYDNOR

FOR SENIORS AND GRADUATES

203-204. The United States, 1850-1900.—The rise of sectionalism, secession, war-time problems of the Union and Confederacy, political and economic adjustments of Reconstruction, the status of the Negro, the New South, problems of capital and labor, the agrarian revolt, political parties and reform, the Spanish-American War. **6 s.h. (E)**

ASSOCIATE PROFESSOR WOODY

209-210. American Constitutional History.—A study of the Colonial foundations of American constitutional attitudes, the constitutional aspects of the American Revolution, the framing and ratification of the Constitution, the statehood process and the extension of democracy, the constitutional implications of sectional conflict, and the Supreme Court in its relation to the problems of an industrial America. Prerequisites: courses 91 and 92. **6 s.h. (w)**

[Not offered in 1945-46]

ASSISTANT PROFESSOR STILL

211. The Teaching of History and the Social Studies (Education 225).—**3 s.h. (w)**

ASSOCIATE PROFESSOR MANCHESTER

[Not offered in 1945-46]

215-216. The Foreign Policy and Diplomacy of the United States.—The work in the first semester, covering the period 1775-1877, deals with such topics as the origin and development of basic foreign policies; isolation from Europe; paramount interests in Latin America, including the Monroe Doctrine; international co-operation in the Far East. The work in the second semester, covering the period since 1877, deals with topics such as the rise of the new "manifest destiny"; beginnings of American imperialism in Latin America and the Far East; the failure of traditional neutrality in the first World War; postwar conflicts between isolation and collective security; involvement in the second World War. **6 s.h. (E)**

PROFESSOR CLYDE

[Not offered in 1945-46]

217-218. Europe since 1870.—International relations since the Franco-German War is the chief subject of study in this course; special emphasis is placed upon the underlying economic and political influences. **6 s.h. (w)**

PROFESSOR CARROLL

219-220. The History of the European Proletariat.—This course is concerned chiefly with the origins, expansion, and organization of the industrial working classes of Europe. The following problems are emphasized: the decline of serfdom, the growth of an urban working class and social revolutions in England, France, and Germany prior to the eighteenth century, the results of the Industrial Revolution, and labor movements and theories during the nineteenth and twentieth centuries. 6 s.h. (w) PROFESSOR CARROLL

[Not offered in 1945-46]

221-222. The Age of the Renaissance.—A survey of social and cultural changes in Western Europe from Dante to Erasmus. 6 s.h. (E)

ASSOCIATE PROFESSOR NELSON

223-224. Medieval Institutions and Culture.—A consideration of the classical heritage, the Germanic infusion, development of ecclesiastical, feudal, monarchical, and communal institutions, relations of Church and State, the rise of universities, vernacular literatures, philosophy, and art in the period 300-1300 A.D. 6 s.h. (E)

ASSISTANT PROFESSOR QUINN

225-226. The Age of the Reformation.—A survey of European civilization from 1500 through the Peace of Westphalia. 6 s.h. (w)

[Not offered in 1945-46]

ASSOCIATE PROFESSOR NELSON

230. The Portuguese Empire and the Rise of Brazil.—The course deals with Portuguese explorations, the establishment of the Portuguese Empire in the East, the transplanting of Portuguese culture overseas, and the rise of a native Brazilian civilization. 3 s.h. (w) ASSOCIATE PROFESSOR MANCHESTER

[Not offered in 1945-46]

231. The Hispanic Colonies of the New World.—The development of the Iberian states as colonizing powers, the work of the conquerors, the Spanish colonial policy and system, their influences and results, native races, the international contest for supremacy, and the decay of Spanish power in America and the Philippines. 3 s.h. (E)

PROFESSOR LANNING

[Not offered in 1945-46]

232. Hispanic Republics of the New World.—3 s.h. (E)

[Not offered in 1945-46]

PROFESSOR LANNING

233. The Cultural and Institutional History of Colonial Hispanic America.—3 s.h. (w)

PROFESSOR LANNING

234. Political and Social Problems in the Hispanic American Republics.—3 s.h. (w)

PROFESSOR LANNING

241-242. The Foreign Relations and Diplomacy of the United States in the Pacific Area and the Far East.—A study of the origins and growth of American relations with China, Japan, the Philippines, and other Pacific areas in their commercial, political, and cultural aspects. 6 s.h. (w)

[Not offered in 1945-46]

PROFESSOR CLYDE

263-264. American Colonial History and the Revolution, 1606-1783.—The growth of institutions and economic life in the English colonies and the American Revolution. Prerequisites: courses 91 and 92. 6 s.h. (E)

[Not offered in 1945-46]

ASSISTANT PROFESSOR WOODY

265-266. The Westward Movement in the United States.—A study of the progress of settlement from the Atlantic to the Pacific Coast with especial attention to the transmission of culture, developments in transportation, the transition from agrarian to urban communities, the process of state-making, and the social, economic, and political effects of the westward march upon the United States as a whole. Prerequisites: courses 91 and 92. 6 s.h. (w)

[Not offered in 1945-46]

ASSISTANT PROFESSOR STILL

NAVY V-12 COURSES

H1-2. Historical Background of Present World War.—May be counted as an introductory course in History. 4 s.h.

N3. Naval History and Elementary Strategy.—3 s.h.

H3. The Ecclesiastical Age.—3 s.h.

H4. A Course Covering the 14th, 15th, 16th, and 17th Centuries to the Close of the Religious Wars in 1648.—3 s.h.

H5. Origins of Modern Europe, 1648-1815.—3 s.h.

H6. Europe in Modern Times from the French Revolution to the Munich Pact.—3 s.h.

H7. American History.—3 s.h.

DEPARTMENTAL MAJOR

Prerequisites: The Introductory Course in History (1-2 or 51-52).

Major Requirements: Students in the General Group desiring to take a major in history are required to elect twenty-four semester hours in the Department, including six semester hours in the Senior year from courses in the 200 group. Students desiring to take the more advanced courses in American history should elect courses 91 and 92 in the Sophomore or Junior year.

DEPARTMENTAL HONORS PROGRAM

Students may become candidates for Honors in history who have passed with a grade of "B" or better in their Freshman and Sophomore years courses 91 and 92 in addition to the introductory course in European history.

Candidates for Honors in history are required to take in the Junior year two courses in history offered in the 100 group and to make an average grade of "B" or better on this work. The remaining work in the Junior year will be chosen from related work and other electives with the consent of the Departmental Committee on Honors. In the Senior year, in addition to the equivalent of fifteen semester hours of supervised reading in history, the candidate must elect with the approval of the Departmental Committee on Honors six semester hours of work from the courses in history offered in the 200 group, on which he is required to make a grade of "B" or better, and nine semester hours of related or other elective work.

Of the supervised reading, which shall be done under the immediate supervision of members of the Departmental Committee on Honors, the equivalent of six semester hours shall be devoted to the classical historians such as Herodotus, Thucydides, Tacitus, Livy, Bede, the better-known chronicles, Machiavelli, Gibbon, Hume, Voltaire, Ranke, and others; the equivalent of nine semester hours shall be devoted to selected fields in either American or European history as the student may elect and the Departmental Committee advise.

At the conclusion of the work the student shall be given an oral examination by a committee of three, consisting of the two members of the Departmental Committee on Honors in charge of his supervised reading and another member of the Department selected by the Departmental Committee.

LATIN AND ROMAN STUDIES

PROFESSOR ROGERS, CHAIRMAN AND DIRECTOR OF UNDERGRADUATE STUDIES;
DR. ROSE, SUPERVISOR OF FRESHMAN INSTRUCTION

Students who wish by study in English to make acquaintance with Roman antiquity from either a literary or a historical approach are afforded that opportunity through the courses in translated Latin Literature (111-112) and Roman History (131-132).

Work is offered in several branches of Roman Studies: Latin Language and Literature, Roman Art and Archaeology, Roman History, Roman Law. Students who present two entrance units in Latin should take course 3-4; those who present three entrance units should take courses 57 and 65 and follow up with courses 4 and 58, or 66, or both, the second semester; those who enter with four units of Latin should pursue course 41-42. A course for beginners, Latin 1-2, is open to all college students.

1-2. Course for Beginners.—Forms, vocabulary, pronunciation, and syntax are emphasized the first semester and will be followed by the reading and translating of Caesar's *Gallie War* the second semester. An effort is made to promote rapid development of ability to read easy Latin with satisfaction. 6 s.h. (w or E) DR. ROSE

3. Cicero's Orations.—Four orations including the *Manilian Law* and *Archias* are read, and attention is paid to prose style. Prerequisite: two entrance units of Latin. 3 s.h. (w) DR. ROSE

4. Vergil's Aeneid.—Selections from Books I-VI, to the amount of four books or more, will be read and translated, due attention being paid to prosody. Prerequisite: three entrance units and Latin 57 taken in the semester preceding admission to the course, unless Latin 3 was taken. 3 s.h. (w) DR. ROSE

41. Livy's History of Rome.—Selections from Books I, XXI, and XXII of Livy's *Ab Urbe Condita Libri*, together with selected parallel reading in English, will acquaint the student with a truly great artist. At the discretion of the instructor the following may be substituted for Livy: Cicero's *De Amicitia* and *De Senectute* or Selected Prose Writers, or *Comedies* of Plautus and Terence. 3 s.h. (w or E) PROFESSOR ROGERS

42.—Horace.—The *Odes* and *Epodes*. 3 s.h. (w or E) DR. ROSE

53. Sallust and Tacitus.—The *Jugurtha* of Sallust, the *Agriicola* of Tacitus. Prerequisite: Latin 41-42 or an equivalent. 3 s.h. (w or E) DR. ROSE

54. Catullus.—Most of the poems will be read, and Catullus' influence on certain ancient and modern poets will be discussed. DR. ROSE

57. Sight Reading in Classical Latin.—One period of an hour per week devoted to practice in the reading of Latin of the classical period; designed to train students to read with facility. (See course 4.) No outside preparation is required. 1 s.h. (w or E) DR. ROSE

58. Sight Reading in Medieval Latin.—One period an hour per week devoted to reading interesting medieval prose and poetry. Prerequisite: at least one of the following courses: Latin 3, 4, 41, 42, and 57, or an equivalent. No outside preparation is required. 1 s.h. (w or E) DR. ROSE

65-66. Latin Prose Composition.—Recommended to students who are pursuing courses 3-4, 57, and 41-42, and may at the discretion of the instructor be required of such students. 2 s.h. (E) DR. ROSE

101. Tacitus and Suetonius.—Interesting and historically important selections from the *Annals* or the *Histories* of Tacitus, with some parallel sections of Suetonius' *Lives of the Twelve Caesars*, are read, with attention to the literary style and the value of the historical narrative. 3 s.h. PROFESSOR ROGERS

102. Juvenal and Persius.—Juvenal's literary satire forms the basis of the course, and some selections from Persius are read for comparison. 3 s.h. PROFESSOR ROGERS

103. The Roman Elegiac Poets.

104. Horace: Satires and Epistles.

105. Martial's Epigrams.

106. Letters of Pliny the Younger.

107. Livy: *Ab Urbe Condita*.

108. Cicero's Letters.

109. Materials and Methods.—A study of Latin in the secondary school curriculum for prospective teachers of Latin in high schools. Prerequisite: eighteen approved semester hours of college Latin, including courses 41-42, 53-54, or equivalent courses. Required of students who plan to teach Latin in state high schools. 3 s.h. Dr. ROSE

111-112. Roman Literature in English Translation.—Selective readings in Latin literature in English translation with emphasis on the drama, lyric poetry, and the varied contributions of Cicero to literature in the first term, and upon the epic, the satire and the novel in the second semester. (No language credit.) 3 s.h. (E or W) Dr. ROSE

113-114. Roman Civilization.

115-116. Art and Architecture of Ancient Rome.

131-132. History of Rome.—A survey of the history of Rome from its beginnings through the Monarchy, Republic and Principate to the death of Justinian; Rome's expansion; development of the Roman constitution and public administration; a study of important features of social, legal, political, and economic problems of perennial life and interest. (This course carries no language credit. No knowledge of Latin is required for admission). 6 s.h. (W) PROFESSOR ROGERS

203-204. Roman Epic: Ennius, Vergil, Manilius, Lucan, Flaccus, Statius, Silius.—A study of this literary genre, and its development by Roman writers; extensive reading of the Roman epics. Not offered if 205-206 is given. 6 s.h. (E)

205-206. Roman Drama.—Select comedies of Plautus and Terence; select tragedies of Seneca. Rapid reading course. 6 s.h. (E)

207-208. Roman Philosophy.

209-210. Vulgar Latin: Introduction to Romance Philology.

211-212. Roman Oratory.—A reading course in the history and development of Roman Oratory, based for the most part on Cicero's *Brutus* and the *Dialogus* of Tacitus. 6 s.h. (E or W) PROFESSOR ROGERS

215. Roman Art and Archaeology.

216. Topography and Monuments of Ancient Rome.

For other courses numbered in the 200 group, see the *Bulletin of the Graduate School*.

NAVY V-12 COURSES

Foreign Language 1-2 may be substituted for a first-year language.

Foreign Language 3-4 may be substituted for a second-year language.

Foreign Language 5, 6, and 7 may be substituted for third-year courses.

DEPARTMENTAL MAJOR

Prerequisites: Latin 41-42, 65-66, or acceptable equivalents.

Major Requirements: Latin 53-54, 101-102, six semester hours in courses numbered from 103 to 108, and six semester hours in courses numbered from 200 to 299 to be taken in the Senior year.

In addition, all majors are expected to pursue course 131-132, History of Rome.

Majors who contemplate graduate work are reminded of the necessity of Greek, German, and French for such study.

LAW COURSES FOR ACADEMIC STUDENTS

The first-year program of the Law School will include the following courses:

<i>Subject</i>	<i>Semester Hours</i>
Agency	2
Contracts	6
Criminal Law and Its Administration	3
Family Law	2
Introduction to Procedure	3
Legal Bibliography	1
Personal Property	2
Possessory Estates	2
Torts	5
	<hr/> 26

The foregoing courses will be distributed between two semesters. The adoption by the School of Law of a three-semester year during the war emergency has required the readjustment of the curriculum for the purpose of confining each course to a single semester. The arrangement of courses will permit beginning students to enter the Law School at the start of any semester. The first two semesters taken by such students will constitute their first-year program. For further information concerning the wartime program, inquiry should be made of the Dean of the School of Law.

MATHEMATICS

PROFESSOR GERGEN, CHAIRMAN; PROFESSOR ELLIOTT, DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR DRESSEL, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS CARLITZ, RANKIN, AND THOMAS; ASSOCIATE PROFESSOR ROBERTS; ASSISTANT PROFESSORS HICKSON, AND PATTERSON;
DR. WADE; AND ASSISTANTS

The Department of Mathematics will offer in 1945-46 those of the following courses not specifically closed for which there is sufficient demand.

Credit is allowed for half of a hyphenated course.

1. Introduction to College Algebra.—Elementary topics, factoring, fractions, rectangular coördinates and graphs, exponents, radicals, linear equations in one and several unknowns, quadratic equations, variation, synthetic division, rational roots. 3 s.h. (w and E) STAFF

1A. College Algebra.—Binomial theorem, progressions, systems involving quadratics, theory of equations, determinants, in addition to the material of Mathematics 1. 4 s.h. (w) STAFF

2. Trigonometry.—Plane trigonometry, introduction to spherical trigonometry. Prerequisite: Mathematics 1 or the equivalent. 3 s.h. (w and E) STAFF

2A. Trigonometry.—Plane and spherical trigonometry. Prerequisite: Mathematics 1A or the equivalent. 4 s.h. (w) STAFF

3-4. Mathematical Analysis for Students of Business.—First half: review topics in algebra, functions and graphs, exponents, radicals, quadratic functions, binomial theorem, logarithms, progressions, interest and annuities, permutations, combinations, probability. Second half: trigonometric functions, right triangles, loci, linear equations, differentiation of algebraic functions, applications with emphasis on problems in business. 6 s.h. (w and E) STAFF

7. Algebra and Trigonometry.—Review topics in algebra, functions and graphs, exponents, radicals, quadratic functions, theory of equations, logarithms, plane trigonometry. 3 s.h. (w and E) STAFF

8. Introduction to Analytic Geometry and Calculus.—Loci, linear and second degree equations and their graphs, differentiation of algebraic functions, integration of polynomials, applications. The normal course for students who have completed Mathematics 2, 2A, or 7, and who wish only a brief introduction to analytic geometry and calculus. Students who prefer the more detailed study of these subjects offered in Mathematics 50 and 51-52 should take Mathematics 50 rather than this course. 3 s.h. (w and E) STAFF

9-10. First-Year Engineering Mathematics.—College algebra, plane trigonometry, introduction to spherical trigonometry, plane analytic geometry, introduction to solid analytic geometry. 10 s.h. (w) STAFF

15. Spherical Geometry and Trigonometry.—Geometric properties of the sphere, theory and computation for spherical triangles, applications to navigation and astronomy. Prerequisite: Mathematics 7 or the equivalent. 3 s.h. (w) ASSISTANT PROFESSOR DRESSEL

50. Analytic Geometry.—Rectangular and polar coördinates, loci, straight lines, conic sections, introduction to solid analytic geometry. Prerequisite: Mathematics 7 or the equivalent. 3 s.h. (w and E) STAFF

51-52. Differential and Integral Calculus.—First-half (Differential Calculus): differentiation of elementary functions, curve tracing, maxima and minima, differentials, curvature, motion, infinite series. Second-half (Integral Calculus): indefinite integrals, definite integrals, partial differentiation, multiple integrals, applications. Prerequisite: Mathematics 50 or permission from the instructor. 6 s.h. (w and E) STAFF

59-60. Second-Year Engineering Mathematics.—Differential and integral calculus. Prerequisite: Mathematics 9-10 or the equivalent. 8 s.h. (w) STAFF

63. Graphical and Numerical Computation.—Computation by series, interpolation, approximation of lengths and areas, construction of charts and tables of use in ordnance and gunnery. Prerequisite: Mathematics 7 or the equivalent. 3 s.h. (w) PROFESSOR THOMAS

[Not offered in 1945-46]

64. Mathematics of Artillery Fire.—A mathematical discussion of orientation and gunnery for artillery. Methods for locating gun and target. The trajectory in vacuo and in air; range table corrections; fire control. Prerequisite: Mathematics 7 or the equivalent. 3 s.h. (w) PROFESSOR THOMAS

[Not offered in 1945-46]

71. Mathematics of Investment.—Simple and compound interest, annuities certain, amortization, sinking funds, depreciation, evaluation of bonds, life insurance. Prerequisite: 6 semester hours of college mathematics. 3 s.h. (w) ASSISTANT PROFESSOR HICKSON

74. Statistics.—Averages; measures of dispersion, skewness and correlation; probable error; curve fitting; graduation of data to type curves; index numbers; applications to problems in business and other fields. Prerequisite: 6 semester hours of college mathematics. 3 s.h. (w) ASSISTANT PROFESSOR HICKSON

76. Mathematical Theory of Economics.—A study from a mathematical point of view of cost and demand functions, monopoly, competition, co-operation, exchange, utility, and production; supplementary review and development of the essential mathematical ideas. Prerequisite: Mathematics 4 or the equivalent. 3 s.h. (w) ASSISTANT PROFESSOR HICKSON

131. Elementary Differential Equations.—Solution of elementary types; formation and integration of equations arising in applications. Prerequisite: integral calculus. 3 s.h. (w and E) ASSISTANT PROFESSOR HICKSON

139-140. Second Course in Calculus.—Multiple integrals, partial differentiation, Taylor's theorem, envelopes, line integrals, Green's theorem, improper integrals, complex numbers. Prerequisite: integral calculus. 6 s.h. (w and E) PROFESSOR ELLIOTT

158. Finite Differences.—Interpolation formulas, symbolic methods polynomials of Bernoulli and Euler, numerical differentiation and integration, difference equations. Must be preceded or accompanied by integral calculus. 3 s.h. (w) PROFESSOR CARLITZ

160. Elementary Solid Analytic Geometry.—Determinants, planes, straight lines, quadric surfaces. Prerequisite: integral calculus. 3 s.h. (w) PROFESSOR CARLITZ

161-162. Reading Course for Juniors.—Open only to Juniors reading for Honors in Mathematics. Material, credit, and hours arranged in consultation with tutor. See Departmental Honors Program.

163-164. Reading Course for Seniors.—Open only to Seniors reading for Honors in Mathematics. Material, credit, and hours arranged in consultation with tutor. See Departmental Honors Program.

FOR SENIORS AND GRADUATES

201. History of Mathematics.—Evolution of the number system, arithmetic geometry, algebra, trigonometry, analytic geometry, calculus, and modern geometry. Brief sketches of mathematicians. Prerequisite: differential calculus. 3 s.h. (E) PROFESSOR RANKIN

204. Teaching of Mathematics.—Fundamental processes, methods of study, mathematical literature, content of courses, applications, use of instruments, correlation of different branches, historical development of secondary school mathematics. Must be preceded or accompanied by integral calculus. 3 s.h. (E) PROFESSOR RANKIN

225. Theory of Equations.—Permutations, determinants, matrices, linear systems, polynomials, and their roots, constructibility, resultants, discriminants, simultaneous equations. Prerequisite: integral calculus. 3 s.h. (w and E)

227-228. Theory of Numbers.—Congruences, arithmetic functions, compound moduli, quadratic reciprocity, Gauss sums, quadratic forms, sums of squares. Prerequisite: integral calculus. 6 s.h. (w) PROFESSOR CARLITZ

229-230. Algebraic Numbers.—Ideals, unique factorization, divisors of the discriminant, determination of the class number. Prerequisite: Mathematics 225. 6 s.h. (w) PROFESSOR CARLITZ

235-236. Modern Algebra.—Groups, fields, rings, matrices, quadratic and bilinear forms, general Galois theory, hypercomplex systems. Prerequisite: integral calculus. 6 s.h. (w) PROFESSOR CARLITZ

250. Modern Geometry.—Properties of the triangle, transversals, harmonic properties of figures, poles, polars, inversion. 3 s.h. (w) PROFESSOR THOMAS
[Not offered in 1945-46]

255-256. Projective Geometry.—Postulational, synthetic treatment centering around Desargues' theorem and the principle of projectivity. Conics, coordinates, order, continuity, metric properties. Prerequisite: integral calculus. 6 s.h. (w) PROFESSOR THOMAS
[Not offered in 1945-46]

271-272. Introductory Topology.—Topological properties of Euclidean spaces; set-theoretic and combinatorial methods. Prerequisite: integral calculus. 6 s.h. (w)

ASSOCIATE PROFESSOR ROBERTS

[Not offered in 1945-46]

275. Probability.—Combinatory analysis, mean values, Bernoulli's theorem, probability integral, applications to statistics. Prerequisite: integral calculus. 3 s.h. (w)

ASSISTANT PROFESSOR DRESSEL

281. Elementary Potential Theory.—Newtonian potentials, vector fields, Dirichlet and Neumann problems. Prerequisite: integral calculus. 3 s.h. (w)

PROFESSOR GERGEN

282. Differential Equations of Mathematical Physics.—Hamilton-Jacobi equation, heat equation, wave equation, telegraphic equation, Schrödinger's equation. Prerequisite: integral calculus. 3 s.h. (w)

ASSISTANT PROFESSOR DRESSEL

283. Fourier Series and Spherical Harmonics.—Fourier series and integrals, Legendre polynomials, spherical harmonics, Bessel functions, applications to mathematical physics. Prerequisite: integral calculus. 3 s.h. (w)

ASSISTANT PROFESSOR DRESSEL

284. Vector Analysis.—Vectors in three-dimensional Euclidean space with applications to physics; introduction to tensor analysis. Prerequisite: integral calculus. 3 s.h. (w)

287. Mathematical Logic.—Boole-Schroeder algebra of logic, system of Principia Mathematica, strict and material implication. 3 s.h. (w)

PROFESSOR CARLITZ

288. Foundations of Mathematics.—Postulates for groups, fields, rings, Boolean algebras. 3 s.h. (w)

PROFESSOR CARLITZ

291-292. Theory of Functions.—Limits, implicit functions, power series, double series, Cauchy's theorem and its applications, Riemann surfaces, conformal mapping. Prerequisite: second course in calculus. 6 s.h. (w)

PROFESSOR GERGEN

NAVY V-12 COURSES IN MATHEMATICS

For descriptions of courses M1 through A1, see Navy V-12 Bulletin, No. 101, November 1, 1943.

MR-MS. Mathematical Analysis R-S.—Equivalent in content to Mathematics M1-M2. May be substituted for Mathematics 9-10. Six recitations per week. Mathematics MR, 4 s.h.; Mathematics MS, 6 s.h.

MT-MU. Mathematical Analysis T-U.—Equivalent in content to Mathematics M5-M6. May be substituted for Mathematics 59-60. Mathematics MT, six recitations per week, 4 s.h.; Mathematics MU, four recitations per week, 4 s.h.

M1-M2. Mathematical Analysis I-II.—May be substituted for Mathematics 9-10. 10 s.h.

M3-M4. Mathematical Analysis III-IV.—May be substituted for Mathematics 9-10. 10 s.h.

M5-M6. Calculus I-II.—May be substituted for Mathematics 59-60. 7 or 8 s.h.

M7. Calculus III.—May be substituted for Mathematics 131. 3 s.h.

M8-M9. Elementary Navigation and Nautical Astronomy Ia-IIa.—6 s.h.

A1. Analytical Mechanics I.—Statics. 2 s.h.

DEPARTMENTAL MAJOR

Prerequisite: Six semester hours of Freshman mathematics.

Major Requirements: Mathematics 51-52 or 59-60 and twelve semester hours in courses numbered above 100. The twelve hours must be approved by the Department through the Director of the Undergraduate Studies.

DEPARTMENTAL HONORS PROGRAM

Prerequisites: A student who meets the general requirement as to candidacy of the Honors Group, who has completed Mathematics 51 or 59, and who has earned an average grade of "B" or better in his courses in mathematics, may become a candidate for Honors.

Honors Work:

(a) Work in Mathematical Courses: To graduate with Honors a candidate must complete, during his Honors program, a minimum of eighteen semester hours of course work in regular open courses numbered above 100. These courses must be completed with an average grade of "B" or better.

(b) Tutorial Work: During his Honors program a candidate reads on special topics in mathematics under the personal supervision of a tutor. A candidate must earn a minimum of six semester hours of credit in his tutorial work. He cannot earn more than nine semester hours in his tutorial work, nor more than thirty-six semester hours for his course work in mathematics and his tutorial work combined.

(c) Work in Courses in Related Fields: A candidate must earn a sufficient number of semester hours of credit in courses in related fields to complete with the credit obtained in (a) and (b) the sixty semester hours required in the Honors Group.

A candidate's program must be approved by the Departmental Honors Adviser.

General Honors Examination: At the end of his Senior year each candidate reading for Honors in Mathematics must pass a comprehensive examination on his Honors program. This examination may be written, oral, or both. Faculty members from other departments and other institutions may be invited to participate in this examination.

NAVAL SCIENCE AND TACTICS

PROFESSOR MCFEATERS, CAPTAIN, U. S. NAVY; ASSOCIATE PROFESSOR STUBBS, LIEUTENANT COMMANDER, U. S. NAVY (RET.); ASSISTANT PROFESSORS BLEVINS, LIEUTENANT, U.S.N.R.; MUFFLEY, LIEUTENANT, U.S.N.R.; MUTH, LIEUTENANT, U.S.N.R.; REDDING, LIEUTENANT, U.S.N.; TRIPLETT, LIEUTENANT, U.S.N.R.; INSTRUCTORS FORSHAG, LIEUTENANT (J.G.), U.S.N.R.; MARSHALL, LIEUTENANT (J.G.), U.S.N.R.; REIQUAM, ENSIGN, U.S.N.R.

1-2. Seamanship.—6 s.h. (w)	STAFF
3. Damage Control and Engineering.—3 s.h. (w)	STAFF
4-5. Navigation and Nautical Astronomy.—6 s.h. (w)	STAFF
6. Naval Administration and Law.—3 s.h. (w)	STAFF
7. Tactics, Aviation, and Recognition.—3 s.h. (w)	STAFF
8. Ordnance.—3 s.h. (w)	STAFF
9. Gunnery.—3 s.h. (w)	STAFF
10. Communications.—3 s.h. (w)	STAFF
11. Refresher Course.—3 s.h. (w)	STAFF

PHILOSOPHY

PROFESSOR WIDGERY, CHAIRMAN; ASSOCIATE PROFESSOR MORGAN, DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR MCLARTY, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS GILBERT AND SMITH; AND ASSOCIATE PROFESSOR LEONARD

For courses marked with an asterisk there is a prerequisite of three hours of philosophy; admission otherwise by permission of the instructor. Sophomores may in general take courses prescribed for Juniors by permission of the instructor.

48. Introduction to Logic and Scientific Method.—The general principles of logical thinking: the nature of the logical processes involved in the attainment of knowledge in mathematics, the sciences, history, and philosophy. The character of systematic exposition. 3 s.h. ASSOCIATE PROFESSOR LEONARD

95. Introduction to Ethics.—An elementary consideration of some of the important moral problems in the light of philosophical tradition and the science of values. Sophomores and approved Freshmen. First semester, second semester. 3 s.h. PROFESSOR GILBERT

96. The Development of American Philosophy.—3 s.h.

101. Introduction to Philosophy.—This course is intended to acquaint the student with the nature of philosophical problems. First semester, second semester. 3 s.h. PROFESSORS WIDGERY AND GILBERT

103. Logic.—Fundamental principles of valid reasoning. 3 s.h. ASSOCIATE PROFESSOR LEONARD

104. Scientific Methodology.—A survey of the methods used in various natural and social sciences. 3 s.h. ASSOCIATE PROFESSOR LEONARD

105. Introduction to the History of Philosophy: Ancient and Medieval.—A study of the great philosophic thinkers with special reference to the problems of a philosophy of human life. 3 s.h.

106. Introduction to the History of Philosophy: Modern.—A study of the great philosophical thinkers with special reference to the problems of a philosophy of human life. 3 s.h. PROFESSOR WIDGERY

108. Philosophical Ideas in Ancient Greek and Roman Culture.—3 s.h. [Not offered in 1945-46]

114. Seventeenth-Century Philosophy, with Special Reference to Spinoza.—3 s.h. (E) PROFESSOR GILBERT

119. Fundamentals of Christian Morality: An Introduction to Christian Ethics.—3 s.h.

121. The Philosophy of Plato.—Lectures, readings, and reports. Reference will be made to some influences of Platonic modes of thought in English literature. 3 s.h.

[Not offered in 1945-46]

FOR SENIORS AND GRADUATES

201-202. The Philosophy of Art.—Study of the various phases of the aesthetic experience and forms of beauty with analysis of examples. Particular attention will be given to recent writers on aesthetics. 6 s.h. (E)

[In alternate years—not offered in 1945-46] PROFESSOR GILBERT

203. The Philosophy of Conduct.*—A critical study of the fundamental problems of ethics. 3 s.h.

205. The Philosophy of History.—An inquiry into the logic and methodology of the knowledge of history, and into the metaphysical implications of history. 3 s.h. (w)
 PROFESSOR WIDGERY

[Not offered in 1945-46]

208. Political Philosophy.—A critical investigation of the bases of political authority and of the ideals of political organization, with reference to prevalent political systems. 3 s.h. (w)

[Not offered in 1945-46]

209-210. The Philosophy of Religion.—A critical consideration of the data of empirical religion and the constructive development of a modern philosophy of religion. 6 s.h. (w)
 PROFESSOR WIDGERY

[In alternate years—offered in 1945-46]

211. Philosophy of Civilization.—The meaning and standards of civilization; its growth, decay, and survival. 3 s.h. (w)

[Not offered in 1945-46]

213-214. History of Aesthetics.—The tracing of the historical solutions of traditional problems, such as the nature of imitation, symbolism, the ugly, the sublime, and the comic; the relation of art to nature, to morals, and to economics; the relation of the particular arts to each other, the standard of taste. 6 s.h. (E)
 PROFESSOR GILBERT

[In alternate years—offered in 1945-46]

215. Christian Ethics I.—A historical and systematic study of Christian conceptions of the moral life and its problems. First semester. (w) 3 s.h.
 Religion 291.
 PROFESSOR SMITH

216. Christian Ethics II.—A critical consideration of selected modern social problems from the viewpoint of Christian ethics. 3 s.h. (w)

PROFESSOR SMITH

217. The Philosophy of Aristotle.*—Prerequisite: course 105.

[Not offered in 1945-46]

224. Contemporary Philosophy.—A study of the leading philosophical movements in Europe and America in the last fifty years. 3 s.h.

PROFESSOR WIDGERY

226. The History of Ethics.—Theories of morality from Socrates to the present time. 3 s.h.

[In alternate years—not offered in 1945-46]

231-232. Philosophy of Science.—A historical and critical survey of the relations of natural science to general philosophy. 6 s.h.

[Not offered in 1945-46]

ASSOCIATE PROFESSOR LEONARD

236. Oriental Philosophy I.—Chinese Philosophy. 3 s.h.

[In alternate years—not offered in 1945-46]

PROFESSOR WIDGERY

238. Oriental Philosophy II.—Indian Philosophy. 3 s.h.

[In alternate years—not offered in 1945-46]

PROFESSOR WIDGERY

241. Logic.—The characteristic structure of a logical system. Forms of propositions and of arguments. Logical relations of propositions. Levels of analysis. 3 s.h.

ASSOCIATE PROFESSOR LEONARD

242. Scientific Methodology.—A survey of the methods used in the different branches of the natural and social sciences in seeking and testing knowledge. 3 s.h.

ASSOCIATE PROFESSOR LEONARD

244. Nietzsche and the Nineteenth Century.—Studies in the major trends of intellectual life of the period, focused around the work of Nietzsche. 3 s.h. (w)

[In alternate years—not offered in 1945-46]

248. Philosophy of Values.—First semester. 3 s.h. (w)

RELATED COURSES IN OTHER DEPARTMENTS

- Education 200. Introduction to the Philosophy of Education.
 Greek 107-108. Plato.—Euripides.
 Greek 209-210. Plato.
 History 221-222. The Age of the Renaissance.
 Mathematics 287. Mathematical Logic.
 Mathematics 288. Foundations of Mathematics.
 Physics 213-214. Contemporary Physics.
 Political Science 223. Political Thought to the Seventeenth Century.
 Political Science 224. Modern Political Theory.
 Psychology 228. Psychology of Belief.

NAVY V-12 COURSES

PL1. Philosophy I.—A study of the philosophy of Plato and its relationship to Greek philosophy in general. 3 s.h.

PL2. Philosophy II.—Introduction to scientific philosophy. 3 s.h.

DEPARTMENTAL MAJOR

The student is required to take courses amounting to at least eighteen credit hours in the Department. Of these, six must be Philosophy 105-106, Introduction to the History of Philosophy; and six must be from courses in the 200 series. The student is advised to consult with an instructor in the Department as to the courses most suitable to fit in his general plan of study.

PHYSICS

PROFESSOR NIELSEN, CHAIRMAN; PROFESSOR HATLEY, DIRECTOR OF UNDERGRADUATE STUDIES; ASSOCIATE PROFESSOR CARPENTER, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS NORDHEIM, SPONER; ASSOCIATE PROFESSOR CONSTANT; ASSISTANT PROFESSOR BONNER; MESSRS. EASTHAM, EGERTON, GREENEWALD, MOORE, AND SELL; AND ASSISTANTS

The courses in physics are designated to meet the needs of three classes of students: (1) those desiring to specialize in physics with a view to work in teaching or investigation; (2) those intending to pursue the study of medicine, biology, or chemistry; (3) those looking forward to the study of engineering. The work of the first year is designed to lay a broad foundation for subsequent study.

An elementary knowledge of all the calculus and credit for 12 semester hours in physics are required in all courses numbered 200 and above.

1-2. **Introductory Physics.**—This course traces historically and experimentally the development of great principles. This course is open to Freshmen, Sophomores, and Juniors and meets the general science requirement. Three-hour recitation and one two-hour laboratory per week. 8 s.h. (W & E)
 THE STAFF

17-18. **Engineering Physics.**—A course covering the field of general physics with emphasis on fundamental principles. Open only to engineering students. 6 s.h. (E)
 ASSISTANT PROFESSOR BONNER

51-52. General Physics.—This course is designed for Sophomores and Juniors. It meets in a thorough way the requirements for entrance into the study of medicine and is well suited for the general science student. A limited number of Freshmen who present physics for entrance and who are taking the required mathematics concurrently may be admitted by permission of the instructor. Three lectures and one three-hour laboratory period each week. Prerequisite: Mathematics 7-8 or equivalent. 8 s.h. (w)

PROFESSOR HATLEY; ASSOCIATE PROFESSOR CARPENTER
AND ASSISTANT PROFESSOR BONNER

57-58. Engineering Physics.—This course is a continuation of Physics 17-18 open to engineering students upon satisfactory completion of 17-18. Two lectures (E) and one three-hour laboratory (w) each week. 6 s.h.

ASSISTANT PROFESSOR BONNER

59-60. Elementary Atomic Physics.—A lecture and demonstration course dealing in a descriptive manner with modern developments in physics. Prerequisite: a year course of college physics and the calculus completed or taken concurrently. 6 s.h. (w)

PROFESSOR NIELSEN

61. Mechanics.—This course covers in a thorough manner the elements of general mechanics. Two lectures and one two-hour laboratory or problem period per week. Prerequisite: a year course of college physics and the calculus completed or taken concurrently. 3 s.h. (w)

PROFESSOR NORDHEIM

62. Heat.—A study of thermometry, specific heats, thermal expansion, transfer of heat, change in state, saturated vapor, hygrometry, the laws of thermodynamics and pyrometry. Two lectures and one two-hour laboratory per week. Prerequisite: a year course in college physics and the calculus completed or taken concurrently. 3 s.h. (w)

THE STAFF

103. Electricity and Magnetism.—An intermediate course covering electrostatics, magnetostatics, current theory, electromagnetism, and electron theory. Prerequisite: a year course in college physics and the calculus. Three lectures and one three-hour laboratory period per week. 4 s.h. (w)

ASSOCIATE PROFESSOR CONSTANT

104. Electrical Measurements.—Exact measurements of resistance, current, voltage, inductance, capacity, etc. Two lectures and one three-hour laboratory period per week. 3 s.h. (w)

PROFESSOR NIELSEN AND ASSOCIATE

PROFESSOR CONSTANT

106. Photography.—A quantitative study of the more important photographic processes and the application of photography to the sciences and arts. Two lectures and one three-hour laboratory period. Prerequisite: a year course in college physics. 3 s.h. (w)

ASSISTANT PROFESSOR BONNER

108. Physical Optics.—An intermediate course dealing with reflection, refraction, interference, diffraction, polarization and dispersion. Prerequisite: a year course in college physics and the calculus. Three lectures and one three-hour laboratory period per week. 4 s.h. (w)

PROFESSOR SPONER

213-214. Contemporary Physics.—A course which covers in a descriptive manner the fundamental concepts and experimental basis of modern theories of the structure of matter. 6 s.h. (w)

ASSOCIATE PROFESSOR CONSTANT

219. Electron Tubes and Their Application.—Theory and application of electron tube circuits with special emphasis on their use in scientific research. Three hours of lecture and one three-hour laboratory per week. 4 s.h. (w)

PROFESSOR NIELSEN

221-222. Introduction to Theoretical Physics.—Lectures and problems on the fundamental principles and mathematical theory of the general field of physics, constituting a thorough foundation for subsequent specialization and more intensive study. 8 s.h. (w)

ASSOCIATE PROFESSOR CONSTANT

225-226. Elementary Investigations.—The aim of this course is to provide training in the laboratory and library methods of physical research. Properly qualified students may conduct elementary investigations under the supervision of a member of the Staff. 3-6 s.h. (w) THE STAFF

NAVY V-12 COURSES

PH1 and PH2. General Physics.—May be substituted for Physics 1-2, Physics 17-18 and Physics 57-58, or Physics 51-52.

PH3-4. Mechanics and Heat.—May be substituted for Physics 61 and Physics 62. 7 s.h.

PH5-6. Theory of Electrical Measurements.—May be substituted for Physics 103. 5 s.h.

***PH7. Electricity and Magnetism I.**—3 s.h.

***PH10. Wave Motion and Sound.**—5 s.h.

***PH11. Analytical Mechanics and Thermodynamics.**—4 s.h.

PH12. Electron Physics.—May be substituted for Physics 213. 3 s.h.

PH13. Optics.—May be substituted for Physics 108. 5 s.h.

PH14-15. Electronics.—May be substituted for Physics 219. 7 s.h.

DEPARTMENTAL MAJOR

A. For the A.B. degree:

Prerequisites: Physics 1-2 or equivalent, and Mathematics 1-2 or 7-8.

Major Requirements: Eighteen to twenty-four hours in courses approved by the Department. (Students who have a considerable number of hours in a closely allied field may, with the approval of the Department, count Physics 51-52 or Physics 57-58 as a major requirement.)

B. For the B.S. degree:

Prerequisites: Physics 1-2, Chemistry 1-2 and Mathematics 7-8 or equivalent.

Major Requirements: Not less than twenty-four hours in courses approved by the Department, not less than six hours of which must be in the 200 group.

DEPARTMENTAL HONORS PROGRAM

Prerequisites: Physics 1-2, 51-52, or 57-58 and six semester hours additional work in physics above the Freshman level; Mathematics six semester hours and Chemistry 1-2.

Honors Program: Physics 103, 108, 219, and 221-222; Mathematics 51-52 and 131; electives subject to the approval of the Departmental Honors Committee, twenty-five semester hours or enough to satisfy the requirements for graduation, of which at least six semester hours must be either a course in Geology or an advanced course in Chemistry, Botany, Zoology, or Mathematics.

In addition, the student will arrange with his adviser for the performance of a limited number of elementary physical investigations. This will consist of both readings and experimental work and in general will constitute a survey of the classical and modern aspects of physics for which ten semester hours credit will be allowed.

At the end of both Junior and Senior years, the student will be given both an oral and a written examination in the field of physics.

POLITICAL SCIENCE

PROFESSOR WILSON, CHAIRMAN; PROFESSOR RANKIN, ACTING CHAIRMAN AND DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR GIBSON, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSOR VON BECKERATH; ASSOCIATE PROFESSORS COLE AND SHIPMAN; ASSISTANT PROFESSORS LINEBARGER, SIMPSON, HALLOWELL, AND WALTER

21. Principles of Government.—An introductory study of the principles and problems of government. Open to Freshmen as an elective. 3 s.h. (w & e)
PROFESSOR VON BECKERATH; ASSISTANT PROFESSORS GIBSON AND SIMPSON

22. Governmental Problems in International Relations.—A study of international politics as seen in current problems of international relations. Open to Freshmen as an elective. 3 s.h. (w & e)

PROFESSOR VON BECKERATH; ASSISTANT PROFESSORS GIBSON AND SIMPSON

61-62. American Government and Politics.—A study of the American political system, including the organization and functioning of national, state, and local government in the United States. 6 s.h. (w & e)

PROFESSORS RANKIN AND WILSON; ASSOCIATE PROFESSORS COLE AND SHIPMAN; ASSISTANT PROFESSORS GIBSON, HALLOWELL, LINEBARGER, AND SIMPSON

Course 61-62 is ordinarily taken before any advanced course in political science. A student who has not had course 61-62 or equivalent work may take an advanced course in the Department with the approval of the instructor giving the advanced course.

111. Contemporary Problems in Far Eastern Politics.—An introductory survey of international politics in Eastern Asia and the Western Pacific. 3 s.h. (w)
ASSISTANT PROFESSOR LINEBARGER

[Not offered in 1945-46]

125. American Political Parties and Practical Politics.—A study of the historical development, organization, and methods of political parties in the United States. 3 s.h. (w)
ASSISTANT PROFESSOR SIMPSON

135. The British Dominions.—A survey of the governments of the British dominions with particular attention to Canada. 3 s.h.

ASSOCIATE PROFESSOR COLE

136. Major European Governments.—A survey of the governments of the major European powers of today. 3 s.h.

ASSOCIATE PROFESSOR COLE AND ASSISTANT PROFESSOR HALLOWELL

141. Public Regulation.—An introduction to the administrative process, emphasizing the nature, types and techniques of public activity; and the methods and problems of protecting the public interest. 3 s.h. (w)

ASSISTANT PROFESSOR WALTER

151-152. Spanish-American Political Institutions.—A study of Spanish-American governments as illustrated in Argentina, Chile, Colombia, and Uruguay. The first semester is devoted to the colonial and independence periods, the second to the national. 6 s.h. (w)
ASSISTANT PROFESSOR GIBSON

[Not offered in 1945-46]

172. Government and Agriculture.—A comparative study of national agricultural policies in Great Britain, Germany, Italy, France, and the United States in the nineteenth and twentieth centuries. 3 s.h. (w)

PROFESSOR VON BECKERATH

174. Politics and Economics.—An analysis of the influence of politically dominant forces and ideologies upon economic policies in societies of principal Western countries since the seventeenth century. 3 s.h. (w)

PROFESSOR VON BECKERATH

207. American Constitutional Law and Theory.—A study of leading principles of American government, as developed through judicial interpretation of the Constitution. 3 s.h. PROFESSOR WILSON

209. State and Local Government in the United States.—A study of the historical development of state and local governments, their present organization, their relation to each other and to the federal government. 3 s.h. PROFESSOR RANKIN

211. Political Institutions of the Far East.—A study of the governmental systems of Japan, Korea, and China from the Chou Dynasty to the present. 3 s.h. ASSISTANT PROFESSOR LINEBARGER

[Not offered in 1945-46]

212. International Politics of the Far East.—A study of changing power relationships in the Orient since the arrival of the Europeans. 3 s.h.

[Not offered in 1945-46]

ASSISTANT PROFESSOR LINEBARGER

223. Political Thought to the Seventeenth Century.—A survey of political thought from the time of Plato to the close of the sixteenth century. 3 s.h.

PROFESSOR WILSON AND ASSISTANT PROFESSOR HALLOWELL

224. Modern Political Theory.—Political theories of the seventeenth and eighteenth centuries, and of the first half of the nineteenth, with a study of their influence upon modern political institutions. 3 s.h.

PROFESSOR WILSON AND ASSISTANT PROFESSOR HALLOWELL

225. Comparative Government.—A comparative study of modern political institutions with particular attention to European constitutional government and politics. 3 s.h.

ASSOCIATE PROFESSOR COLE AND ASSISTANT PROFESSOR HALLOWELL

226. Comparative Government.—A comparative study of modern political institutions with particular attention to European authoritarian and dictatorial government and politics. 3 s.h.

ASSOCIATE PROFESSOR COLE AND ASSISTANT PROFESSOR HALLOWELL

227-228. International Law.—Elements of international law, particularly as interpreted and applied by the United States. 6 s.h. PROFESSOR WILSON

229. Recent and Contemporary Political Theory.—A study of the more significant contributions to political theory from 1850 to the present. 3 s.h.

[Not offered in 1945-46]

ASSOCIATE PROFESSOR COLE

230. American Political Institutions.—A study of the formation and development of institutions of the national government in the United States, with historical and analytical treatment. 3 s.h. PROFESSOR RANKIN

241-242. The Administrative Process.—The function and theory of organization, delegated legislation, administrative adjudication, the control of administration, and special problems in economic balancing and proprietary activities. 6 s.h. ASSISTANT PROFESSOR WALTER

244. Administrative Law.—The law of the administrative process, including the nature of regulatory authority, the status and liability of public officers, administrative tribunals and judicial review of administrative action. 3 s.h. ASSISTANT PROFESSOR WALTER

252. Spanish-American Constitutionalism.—A comparative study of the nature, sources, and use of political authority in the constitutional law of Argentina, Chile, Colombia, and Uruguay. 3 s.h. ASSISTANT PROFESSOR GIBSON

[Not offered in 1945-46]

271. Sociopolitics and Capitalism.—Labor and labor policies in Western Europe and the United States in the nineteenth and twentieth centuries; "social security" during and after the war. 3 s.h. PROFESSOR VON BECKERATH

291. **Municipal Government.**—A study of problems relating to the structural system and activities of municipalities in the United States. 3 s.h.

292. **Municipal Administration.**—A study of principles and methods of municipal administration in the United States. 3 s.h. (w) PROFESSOR RANKIN

DEPARTMENTAL MAJOR

Prerequisite: Political Science 61-62.

Major Requirements: Eighteen semester hours of work in the Department above course 61-62, including at least nine semester hours in Senior-Graduate courses.

PSYCHOLOGY

PROFESSOR LUNDHOLM, CHAIRMAN; ASSISTANT PROFESSOR KEMP, DIRECTOR OF UNDERGRADUATE STUDIES; PROFESSORS RHINE AND ZENER; ASSOCIATE PROFESSOR ADAMS; VISITING ASSOCIATE PROFESSOR CATTELL; DR. KOCH

91. **Introduction to Psychology.**—3 s.h.

PROFESSORS LUNDHOLM AND ZENER; VISITING ASSOCIATE PROFESSOR CATTELL; DR. KOCH

96. **Applied Psychology.**—3 s.h.

103. **Conation and Our Conscious Life.**—3 s.h. PROFESSOR LUNDHOLM

104. **Comparative Psychology.**—3 s.h. ASSOCIATE PROFESSOR ADAMS
[Not offered in 1945-46]

106. **Abnormal Psychology.** PROFESSOR LUNDHOLM

110. **Applied Social Psychology.**—3 s.h. DR. KOCH
[Not offered in 1945-46]

111. **Advanced General Psychology: Learning, Memory, Perception, Thinking.**—3 s.h. PROFESSOR ZENER
[Not offered in 1945-46]

112. **Advanced General Psychology: Action, Motivation, Emotion.**—3 s.h. PROFESSOR ZENER
[Not offered in 1945-46]

115. **Psychology of Personality.**—3 s.h. PROFESSOR RHINE

116. **Psychology of Adjustment.**—3 s.h. PROFESSOR RHINE

122. **Psychology of Aesthetics.**—3 s.h. PROFESSOR LUNDHOLM

128. **Psychology of Belief.**—3 s.h. PROFESSOR LUNDHOLM
[Not offered in 1945-46]

204. **Motivation and Learning.**—3 s.h. PROFESSOR ZENER
[Not offered in 1945-46]

206. **Social Psychology.**—3 s.h. ASSOCIATE PROFESSOR ADAMS, DR. KOCH
[Offered in fall semester]

207. **Psychology of Memory, Thinking, Perceiving.**—3 s.h. PROFESSOR ZENER

209. **Experimental Methods in Human Psychology.**—4 s.h. PROFESSOR ZENER
[Offered in spring semester]

212. **Physiological Psychology.**—3 s.h. ASSISTANT PROFESSOR KEMP
[Not offered in 1945-46]

215. **Developmental Psychology.**—3 s.h. ASSOCIATE PROFESSOR ADAMS
[Not offered in 1945-46]

221. **The Experimental and Statistical Study of Personality.**—3 s.h. VISITING ASSOCIATE PROFESSOR CATTELL
[Not offered in 1945-46]

223. **Abnormal Psychology.**—3 s.h.

PROFESSOR LUNDHOLM

226. **Psychology: Historical and Theoretical.**—3 s.h.

[Not offered in 1945-46]

PROFESSOR ZENER

231-232. **Introduction to Research.**—2 or 3 s.h. for one semester.

PROFESSORS LUNDHOLM, RHINE AND ZENER; ASSOCIATE PROFESSOR
ADAMS AND VISITING ASSOCIATE PROFESSOR CATTELL; DR. KOCH

NAVY V-12 COURSES

PS1. **Psychology I—General.**—May be substituted for Psychology 91.
3 s.h.

PS2. **Psychology II—Abnormal.**—May be substituted for Psychology 106.
3 s.h.

PS3. **Social Psychology.**—May be substituted for Psychology 110. 3 s.h.

DEPARTMENTAL MAJOR

Prerequisites: Psychology 91 and Zoology 1 and 2 or equivalent in biology.

Major Requirements: Eighteen semester hours in psychology in addition to Psychology 91, at least six semester hours of which must be taken in Senior-Graduate courses.

DEPARTMENTAL HONORS PROGRAM

Departmental Honors in psychology are governed by the general rules covering all Honors programs.

Prerequisite: The minimum requirement for admission to Honors in psychology is the completion of Psychology 91 with a grade of "B" or higher. Completion of Zoology 1-2 is strongly recommended.

Departmental Honors Program:

(a) **Honors Readings.**—Tutorial work with a member of the Department designated by the Honors Committee. This work shall be counted as the equivalent of three semester hours in the Junior and six semester hours in the Senior year.

(b) **Courses in Psychology.**—At least six courses in the Department in addition to the prerequisite (of which at least three must be of Senior-Graduate level).

(c) **Courses in Related Fields.**—To complete the total of sixty semester hours. All courses are to be chosen by consultation with the Departmental Honors Adviser.

(d) **At the end of the Senior year.**—A final written and oral examination on the fields of psychology chosen, and an experimental or critical paper on a selected problem.

RELIGION

PROFESSOR MYERS, CHAIRMAN AND DIRECTOR OF UNDERGRADUATE STUDIES; ASSOCIATE PROFESSOR PETRY, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS CANNON, ORMOND, SPENCE, AND STINESPRING; ASSOCIATE PROFESSORS CLARK AND OUTLER; VISITING ASSOCIATE PROFESSOR GOLDIN, ASSISTANT PROFESSOR CRUM; AND MRS. SPENCE

The minimum uniform requirement in Religion may be fulfilled by completing six semester hours in any of the following courses: 1-2, 51-52, 101-102, 103-104, 114, 163, 167-168, 169-170, 181-182, 183, 191. Classes in these courses are limited to fifty students.

1. The English Bible.—Survey of the contents of the historical and prophetic books of the Old Testament with particular reference to the literary, historical, and religious values. Required of all students majoring in religion, and is open to others as an elective in the Freshman year. 3 s.h. (E & W)

PROFESSORS MYERS AND ORMOND; ASSISTANT PROFESSOR CRUM; AND MRS. SPENCE

2. The English Bible.—Study of the Psalms, wisdom literature, and the literature of the New Testament with special attention given to the literary, historical, and religious values. Required of all students majoring in religion, and is open to others as an elective in the Freshman year. 3 s.h. (E & W)

ASSISTANT PROFESSOR CRUM AND MRS. SPENCE

51. The History of the Hebrew People.—A study of the Hebrew people that gives attention to their political history, their religious and social institutions, their literary development, with special reference to their contributions to civilization. For Sophomores; not open to students who have had Religion 1. 3 s.h. (E & W)

PROFESSORS MYERS AND SPENCE; ASSOCIATE PROFESSOR OUTLER; ASSISTANT PROFESSOR CRUM; AND MRS. SPENCE

52. New Testament Life and Literature.—A study of the literature of the New Testament, its historical background, and its religious value. For Sophomores; not open to students who have had Religion 2. 3 s.h. (E & W)

PROFESSOR MYERS; ASSISTANT PROFESSOR CRUM; AND MRS. SPENCE

101. The Social Teachings of the Prophets and Jesus.—A study of the social teachings of the Old Testament prophets and of the social ideals of Jesus as they appear in the four gospels. Not open for credit to students who take Religion 103 or 114. 3 s.h. (W)

PROFESSOR ORMOND

102. The Christian Church in the Social Order.—This course will deal with the Christian Church in its service to society and its relation to other social institutions. 3 s.h. (W)

PROFESSOR ORMOND

103. The Prophets of the Old Testament.—In this course a study is made of the history and nature of prophecy, with particular attention being given to the messages of the outstanding pre-exilic literary prophets. Not open for credit to students who take Religion 101. 3 s.h. (E & W)

PROFESSOR MYERS

104. The History and Religion of the Jews to the Roman Period.—The work in this course is based largely on exilic and post-exilic prophecy, the wisdom literature, and the earlier apocalyptic and apocryphal literature. 3 s.h. (W)

PROFESSOR MYERS

114. The Life and Teachings of Jesus.—This course considers the period in which Jesus lived, the record of his life, and the meaning of his teachings as recorded in the Synoptic Gospels. Not open for credit to students who take Religion 101. 3 s.h. (E & W)

PROFESSOR MYERS

117. The History and Thought of Judaism I.—A history of the Jewish people and a study of their major religious and literary contributions from the time of Alexander the Great through the beginnings of the eighteenth century. 3 s.h. (E)

VISITING ASSOCIATE PROFESSOR GOLDIN

118. The History and Thought of Judaism II.—A study of modern Jewish history, its problems, major movements, and distinctive features from the eighteenth century to the outbreak of World War II. 3 s.h. (E)

VISITING ASSOCIATE PROFESSOR GOLDIN

163. Religious Education of Children.—An analysis of the religious life, interests and capacities of children; including a study of the problems, objectives, methods, and materials involved in teaching religion to children. Directed to the needs of the lay workers in the church. 3 s.h. (E)

MRS. SPENCE

167. Contemporary Religious Problems.—A course that deals with the main interests of life from the standpoint of their social and religious significance. 3 s.h. (E) PROFESSOR SPENCE

168. Masterpieces of Great Religious Literature.—This course is devoted to the religious thought in the literature from the second to the twentieth centuries, with special attention given modern religious poetry. 3 s.h. (E)
(Old number SR.270.) PROFESSOR SPENCE

169. Character Problems.—Problems of youth in character building. 3 s.h. (E & W) ASSISTANT PROFESSOR CRUM

170. Religion and the Family.—A study of the American home in its contemporary social and religious aspects. 3 s.h. (E & W)
ASSISTANT PROFESSOR CRUM

181. The Nature and Early Development of Religion.—Introduction to the early history of religion, the beliefs and practices of the more primitive peoples, and the religious life of the ancient world. For Juniors and Seniors. Not open for credit to students who take Religion 183. 3 s.h. (E)
PROFESSOR CANNON

182. Living Religions of the World.—A survey of the religious systems of India, China, and Japan, followed by a study of Judaism, Mohammedanism, and Christianity, the object being to trace the historical development of each religion. For Juniors and Seniors. Not open for credit to students who take Religion 183. 3 s.h. (E)
(Old number 282.) PROFESSOR CANNON

183. The Religious and Social Contributions of the World's Great Religions.—A survey of the world's great religions to discover and appraise their cultural and religious values. Not open for credit to students who take Religion 181 or 182. 3 s.h. (W) PROFESSOR SPENCE

191. Fundamentals of Christian Morality: An Introduction to Christian Ethics.—(Identical with Philosophy 119.) 3 s.h. (W)
ASSISTANT PROFESSOR McLARTY

193. A Study of Materials Suitable for Public School Courses in Religion and Ethics, including the English Bible and other religious literature. 3 s.h. (E) ASSISTANT PROFESSOR CRUM

201-202. First Hebrew.—A study in the forms of the Hebrew language with reading of selected Old Testament narratives. 6 s.h. (W)
PROFESSOR STINESPRING

211-212. Hellenistic Greek.—Designed for beginners to enable them to read the Greek New Testament. 6 s.h., provided the students takes six semester hours in New Testament Greek the following year. 6 s.h. (W)
ASSOCIATE PROFESSOR CLARK

265. Religious Drama.—A historical survey of the relation between religion and drama, a study of the uses and underlying principles of religious drama, and a critical examination and interpretation of selected dramatic productions. 3 s.h. (W) PROFESSOR SPENCE

268. Religious Drama Construction and Production.—Project work in the creation and production of religious drama and pageants. Practice in the selection, staging, lighting, and direction of religious plays. Construction of dramatic programs of worship. 3 s.h. (W) PROFESSOR SPENCE

DEPARTMENTAL MAJOR

Prerequisite: Religion 1-2, or 51-52.

Major Requirements: A major in the Department of Religion consists of eighteen semester hours of work, exclusive of courses primarily for Freshmen, selected with the approval of the instructor under whose supervision the student does his major work.

DEPARTMENTAL HONORS PROGRAM*General Rules:*

I. The Departmental Honors Program constitutes the work of the Honors student during the Junior and Senior years. This program shall be the equivalent of sixty semester hours of work.

II. The minimum amount of work that may be taken in the Department of Religion shall be the equivalent of twenty-four semester hours, and the maximum shall be the equivalent of thirty-six semester hours. Of this, the work done in the Honors tutorials shall count fifteen hours, six hours for the Junior year, six hours for the Senior year, and three hours for the comprehensive examination at the end of the Senior year.

III. The related work, which shall constitute at least two fifths of the Honors program, that is, the equivalent of twenty-four semester hours, must be distributed among not less than two departments, unless the departmental committee gives special permission for the student to take his related work in one department.

Prerequisite:

The minimum requirement for admission to Honors in Religion is the completion of a course in Religion during the Sophomore year on which the student makes at least a grade of "B."

Normal Program:

The normal program for the Honors student in the Junior year shall consist of the Honors tutorial, two courses in the Department of Religion, and two courses in related departments; in the Senior year the work shall consist of the Honors tutorial, one and one-half courses in Religion, and two in related departments.

General Honors Examinations:

Two comprehensive written examinations and a supplementary oral examination will be held at the end of the Senior year to test the student's knowledge of the special field in which he has done his Honors work.

ROMANCE LANGUAGES

PROFESSOR WEBB, CHAIRMAN AND DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR DAVIS, SUPERVISOR OF FRESHMAN INSTRUCTION IN FRENCH AND SPANISH; PROFESSORS COWPER, JORDAN, AND LUNDEBERG; ASSOCIATE PROFESSOR WALTON; ASSISTANT PROFESSORS BRIDGERS, DOW, QUINN, RAYMOND, REID, AND YOUNG; MRS. DILLINGHAM, MME. DOW; AND ASSISTANTS

The courses in French from 1 to 52 inclusive, and 57-58 are for the general student. They give a reading knowledge of standard French and furnish an introduction to French letters. Courses 55-56, 107, 127-128, and 217 offer training in the French language. The literary courses are devoted to the systematic study of classical and modern French literature. Advanced students are offered an introductory course in Old French and Old French literature. Those planning to teach will find in course 218 a treatment of the teaching of French.

The course in Italian includes the reading of Dante's *Inferno*.

The courses in Spanish from 1 to 68 inclusive are for the general student. Their objective is the attainment of ability to read the language with sufficient ease to be able to interpret standard literary Spanish. Courses 71 and 72, 171 and 172, 253, and 260 offer further training in the oral and written use of the language. The remaining courses are devoted to the interpretation of modern and classic Spanish and Spanish-American literature.

FRENCH

1-2. Elementary French.—6 s.h. (W & E)

PROFESSOR WEBB; ASSISTANT PROFESSORS DOW AND RAYMOND

3-4. French Prose.—Prerequisite: French 1 and 2, or two years of high-school French. 6 s.h. (W & E) PROFESSORS COWPER AND JORDAN; ASSOCIATE PROFESSOR WALTON; ASSISTANT PROFESSOR DOW

51-52. Introduction to French Literature.—Prerequisite: French 3 and 4 or equivalent. 6 s.h. (W & E)

PROFESSORS COWPER, JORDAN AND WEBB; ASSOCIATE PROFESSOR WALTON; ASSISTANT PROFESSORS DOW AND YOUNG

55. Exercises in Spoken French.—1 s.h. (W & E)

ASSISTANT PROFESSOR DOW AND MME. DOW

56. Exercises in Spoken French.—1 s.h. (W & E)

ASSISTANT PROFESSOR DOW AND MME. DOW

107. French Composition.—3 s.h. (E)

PROFESSOR COWPER AND ASSISTANT PROFESSOR RAYMOND

108. The French Romantic Movement.—3 s.h. (E)

PROFESSOR COWPER AND ASSISTANT PROFESSOR RAYMOND

110. Poems of Victor Hugo.—3 s.h. (E)

ASSISTANT PROFESSOR DOW

111. French Drama since 1850.—3 s.h. (E)
[Not offered in 1945-46]

ASSISTANT PROFESSOR YOUNG

112. French Drama since 1850.—3 s.h. (E)
[Not offered in 1945-46]

ASSISTANT PROFESSOR YOUNG

113. French Drama of the Seventeenth Century.—Selected plays of Corneille, Racine, and Molière. 3 s.h. (E)

ASSISTANT PROFESSOR RAYMOND

115. Masterpieces of Balzac.—A study of the outstanding examples of Balzac's art as a story teller and creator of character. 3 s.h. (E)

ASSISTANT PROFESSOR BRIDGERS

116. Balzac and His Age.—Reading of selected works of Alphonse Daudet and other continuers of Balzac's realism. Course to be conducted in French. 3 s.h. (E)

ASSISTANT PROFESSOR BRIDGERS

127. Advanced French Composition.—Prerequisite: French 107 or equivalent. 3 s.h. (E)

MME. DOW

128. Advanced French Composition.—Prerequisite: French 107 or equivalent. 3 s.h. (E)

MME. DOW

129-130. French Readings on Great Men and Events in the French Tradition.—Oral work in French. Optional reading along various lines. Prerequisite: French 51-52 or equivalent. 6 s.h. (E)

ASSOCIATE PROFESSOR WALTON

213. **French Classicism.**—From Malherbe to La Bruyère. 3 s.h. (E)
ASSOCIATE PROFESSOR WALTON
214. **French Classicism.**—From La Bruyère to the Encyclopedists and Beaumarchais. 3 s.h. (E)
ASSOCIATE PROFESSOR WALTON
- 215-216. **The Modern French Novel.**—A survey of the novel form from the seventeenth to the twentieth centuries, with particular attention to the analysis of fundamental literary tendencies; classicism, rationalism, romanticism, and realism. 6 s.h. (E)
PROFESSOR JORDAN
217. **French Phonetics.**—French sounds and French spelling; pronunciation drills; exercises in phonetic transcription and dictation; diction, aural comprehension. Prerequisite: 3 s.h. from courses 107 or 127-128. 3 s.h. (E)
(Second semester) PROFESSOR WEBB
218. **Materials and Methods.**—History of the teaching of French; methods; the course of study; analysis and criticism of representative texts, tests, and examinations; objectives in the light of teaching conditions, equipment and future application. Prerequisite: French 107. 3 s.h. (E)
(First semester) PROFESSOR WEBB
219. **Old French.**—An introduction to the Old French language and literature. The *Chanson de Roland*—*Aucassin et Nicolette*. 3 s.h. (E)
PROFESSOR COWPER
220. **Old French.**—Types of Old French literature. The Romances of Chivalry. 3 s.h. (E)
PROFESSOR COWPER
227. **French Poetry since Théophile Gautier.**—Parnassianism and symbolism. 3 s.h. (E)
ASSOCIATE PROFESSOR WALTON
232. **Rousseau and the Beginnings of Romanticism.**—3 s.h. (E)
PROFESSOR COWPER
233. **Main Currents of Modern French Literature.**—A survey of the principal literary tendencies from the seventeenth to the nineteenth centuries. Selected illustrative readings from leading authors. 3 s.h. (E)
[Not offered in 1945-46] PROFESSOR WEBB

ITALIAN

- 181-182. **Italian.**—Introduction to the language, modern Italian readings, and Dante's *Inferno*. 6 s.h. (E)
PROFESSOR WEBB

ROMANCE LITERATURE IN TRANSLATION

191. **Romance Literature of the Renaissance in Translation.**—The Renaissance in Italy: Dante, Petrarch, Boccaccio, Machiavelli. 3 s.h. (E)
ASSISTANT PROFESSOR BRIDGERS
192. **Roman Literature of the Renaissance in Translation.**—The Renaissance in France and Spain: Rabelais, Montaigne, Cervantes, and Lope de Vega. 3 s.h. (E)
ASSISTANT PROFESSOR BRIDGERS

SPANISH

- 1-2. **Elementary Spanish.**—6 s.h. (W & E)
ASSISTANT PROFESSORS BRIDGERS, DOW AND YOUNG; MRS. DILLINGHAM, MME. DOW; AND ASSISTANTS
- 1-2. **Special Oral Section.**—Meeting six hours per week, to cover the work of first-year Spanish in one semester. Limited to 25 students. Primarily intended for those planning to major in Spanish. Others should register for regular section. First semester. 6 s.h. (E)
MRS. DILLINGHAM

3-4. Intermediate Spanish.—Prerequisite: Spanish 1-2 or two years of high-school Spanish. 6 s.h. (w & e)

ASSISTANT PROFESSORS DAVIS, DOW, RAYMOND AND YOUNG; MRS. DILLINGHAM AND MME. DOW

3-4. Special Oral Section.—Meeting six hours per week, to cover the work of second-year Spanish in one semester. Limited to 25 students. For those planning to major in Spanish. Second semester. 6 s.h. (e)

MRS. DILLINGHAM

65. Introduction to Modern Spanish Literature.—Prerequisite: Spanish 3-4 or equivalent. 3 s.h. (w & e)

PROFESSOR LUNDEBERG; ASSISTANT PROFESSORS BRIDGERS, DAVIS AND RAYMOND

66. Introduction to Spanish Literature of the Golden Age.—Prerequisite: Spanish 65 or equivalent. 3 s.h. (w & e)

PROFESSOR LUNDEBERG; ASSISTANT PROFESSORS DAVIS AND RAYMOND

68. Introduction to Spanish-American Literature.—Study of typical works in the field of the novel, chiefly of the modern period; lectures on literary, social, and cultural backgrounds and tendencies; collateral readings and reports. This course is offered as an alternate to Spanish 66 and will be accepted in fulfillment of major and graduation requirements. 3 s.h. (w)

ASSISTANT PROFESSOR BRIDGERS

Spanish 65-66 or 65-68 are the basic prerequisites to all higher courses.

71. Elementary Conversation.—Prerequisite: completion of Spanish 4 or equivalent and approval of instructor. Normally this course should be taken concurrently with Spanish 65-66. (Enrollment limited to twenty students.) 1 s.h. (w & e)

ASSISTANT PROFESSOR BRIDGERS AND MRS. DILLINGHAM

72. Elementary Conversation.—1 s.h. (w & e)

ASSISTANT PROFESSOR BRIDGERS AND MRS. DILLINGHAM

155. Survey of Spanish-American Literature.—Reading and discussion of representative texts illustrating the cultural development from Colonial times through Romanticism. Prerequisite: Spanish 65-66 or special permission. 3 s.h. (e)

PROFESSOR LUNDEBERG

156. Survey of Spanish-American Literature.—Reading and discussion of representative works in the field of the novel, drama, and poetry of the past century, including consideration of native types such as the *gaucho* and the *indio* together with brief introduction to the *modernista* movement. Prerequisite: Spanish 65-66 or special permission. 3 s.h. (e)

PROFESSOR LUNDEBERG

157-158. The Modern Spanish Theater.—Prerequisite: Spanish 65-66 or special permission. 6 s.h. (e)

[Not offered in 1945-46]

171. Intermediate Conversation.—Emphasis will be laid on practical Spanish. Prerequisite: Spanish 71-72 or equivalent. May be taken only concurrently with one of the 100 courses in Spanish. 1 s.h. (e)

PROFESSOR LUNDEBERG

172. Intermediate Conversation.—1 s.h. (e)

PROFESSOR LUNDEBERG

253. Spanish Phonetics.—The sounds of the Spanish language; sound changes; exercises in transcription; regional pronunciation; intonation; limited use of electrical recording machines. Prerequisite: Spanish 65-66. (Enrollment limited to fifteen students.) 3 s.h. (e)

PROFESSOR LUNDEBERG

255-256. Studies in Spanish-American Literature.—The course will center about the development of national and continental consciousness in Spanish-American literary history from Colonial times to the present day, although special emphasis will be given to modern literature. Extensive individual investigations and reports with adequate training in bibliography. 6 s.h. (E)
[Not offered in 1945-46]

257-258. Old Spanish Language and Literature.—First semester: The historical development of the language together with illustrative readings. Second semester: The literature of the Middle Ages and early Renaissance. Available to properly qualified students upon consultation with the instructor. 6 s.h. (E)

ASSISTANT PROFESSOR DAVIS

260. Advanced Syntax and Composition.—Systematic review of Spanish syntax; free oral and written composition; selected translation assignments; epistolary forms, etc. Conducted mainly in Spanish. Prerequisite: Spanish 65-66. (Enrollment limited to fifteen students.) 3 s.h. (E)

PROFESSOR LUNDEBERG

261-262. Modern Spanish Novel.—The evolution of the novel from the *costumbrista* writers through the generation of 1898. Prerequisite: 6 s.h. from courses 155 to 158 inclusive, or 65-66 with permission. 6 s.h. (E)

[Not offered in 1945-46]

PROFESSOR LUNDEBERG

265. Golden Age Literature: Cervantes.—The *Novelas ejemplares*; analytic study of the tales, their style, literary importance and influence. Prerequisite: 6 s.h. from courses 155 to 158 inclusive or 65-66 with permission. 3 s.h. (E)

PROFESSOR LUNDEBERG

266. Golden Age Literature: Golden Age Drama.—Study of representative plays of the period with emphasis on the theme of honor. Prerequisite: 6 s.h. from courses 155 to 158 inclusive, or 65-66 with permission. 3 s.h. (E)

PROFESSOR LUNDEBERG

NAVY V-12 COURSES

Foreign Language 1-2 may be substituted for a first-year language.

Foreign Language 3-4 may be substituted for a second-year language.

Foreign Language 5, 6, and 7 may be substituted for third-year courses.

DEPARTMENTAL MAJOR

Prerequisites: French 1-2, 3-4, or equivalent, for French. Spanish 1-2, 3-4, or equivalent, for Spanish.

Major Requirements: In French, twenty-four semester hours of work must be completed in courses above the Freshman level, and must include: (a) six semester hours from the group 107, 127-128, 217; (b) six semester hours of literature in courses numbered 213 to 233.

In Spanish, twenty-four semester hours must be completed as follows: twelve semester hours in the courses 65-68, 155-156, 157-158; twelve semester hours from the group 253-266.

Students desiring the recommendation of the Department for the teaching of French will take, in addition, course 218.

DEPARTMENTAL HONORS PROGRAM

Prerequisites: Completion of 51-52 or 57-58 by the end of the Sophomore year in a manner satisfactory to the Departmental Committee.

Honors work in French includes:

(a) Training in the use of written and oral French; composition, résumé, and literary commentary in French. Three semester hours each semester of Junior and Senior years, total twelve semester hours.

- (b) Readings in French literature.
 - (1) Survey of chief authors. Three semester hours each semester or twelve semester hours.
 - (2) Genre studies beginning with the modern novel. Three semester hours each semester or twelve semester hours.
- (c) Comprehensive examination.
- (d) Related work: Twenty-four semester hours.

SOCIOLOGY AND ANTHROPOLOGY

PROFESSOR JENSEN, DIRECTOR OF GRADUATE AND UNDERGRADUATE STUDIES;
PROFESSOR HART; ASSOCIATE PROFESSORS GILLIN AND THOMPSON

91-92. General Sociology.—The same as course 101, except that it gives an additional hour of credit to permit the introduction of more concrete materials, and admits Sophomores with an average grade of not less than "C" during the Freshman year. 6 s.h. (E)
PROFESSOR JENSEN
(w) ASSOCIATE PROFESSOR GILLIN

101. General Sociology.—An introduction to the scientific study of social life; its origin, evolution, and organization as illustrated by the study of a number of concrete social problems. This course is repeated each semester and it, or its equivalent course 91-92 or course 131-132, is prerequisite to all other courses in sociology. 5 s.h. (w)
[Not offered in 1945-46]

102. General Sociology.—The same as course 101. 5 s.h. (w)

109. Sociology of the South.—The developing regional organization of the world economy studied with especial reference to Southern life and problems. A survey of the composition and distribution of population, races and race relations; economic conditions underlying population, race factors, and culture of the South. Primary emphasis is upon social change and its control. Prerequisite: course 91-92, 101 or 131-132. 3 s.h. (w)

ASSOCIATE PROFESSOR THOMPSON

111. Introduction to Child Welfare.—A special course in child welfare for Juniors and Seniors. Prerequisite: course 91-92, 101 or 131-132. 3 s.h. (w)
PROFESSOR JENSEN

114. Race Relations.—Against the background of a preliminary study of interracial experiences in other parts of the world an effort is made to understand more clearly the racial situation in the Southern States. Prerequisite: course 91-92, 101 or 131-132. 3 s.h. (w)

ASSOCIATE PROFESSOR THOMPSON

122. Personality and Culture.—Problems of college students in adjusting their personalities to the social institutions of which they are, or are to be, parts. Prerequisite: Sociology 91-92, 101 or 131-132. 3 s.h. (w)

PROFESSOR HART

131. General Anthropology.—A survey of mankind and its cultural activities from the earliest times to the present day; fossil man and the development of the present species; modern races and varieties; first steps and later elaborations in tools and other material creations, language, family life and social organization, political institutions, art, and religion. Special attention will be given to the simpler societies. 3 s.h.

ASSOCIATE PROFESSOR GILLIN

132. Cultural Anthropology.—A study of the dynamics of culture and its varieties, using materials from the simpler societies in various parts of the world; functions of culture, psychological aspects, the individual and culture, environmental aspects, cultural growth and change, acculturation; applications of these concepts to certain contemporary problems. Prerequisite: course 91-92, 101 or 131. 3 s.h.

ASSOCIATE PROFESSOR GILLIN

205. Social Pathology.—A study of the causes, extent, significance, and constructive treatment of the principal forms of pathology in modern society: poverty, physical defectiveness, malnutrition, mental deficiency, mental disease, undirected leisure activities and unstandardized commercial recreation, alcoholism, prostitution, vagrancy, and delinquency. Prerequisite: course 91-92, 101 or 131-132. 3 s.h. (w) PROFESSOR JENSEN

206. Criminology.—A study of the original tendencies of man and the problem of socializing these tendencies; the relations of physical and mental defectiveness and untoward influences in the home and neighborhood to crime; the development of criminological theory and procedure, emphasizing penal and reform methods, and especially modern methods of social treatment and prevention of crime. Prerequisite: course 91-92, 101 or 131-132. 3 s.h. (w) PROFESSOR JENSEN

212. Child Welfare.—A study of heredity and environment as factors in personality development; infant conservation; welfare responsibilities of the school, emphasizing the physical and mental well-being of the child, play, and compulsory and industrial education; child labor, diagnosis and treatment of delinquency; care of the dependent and neglected child; child-caring agencies, public and private; and a community program of child welfare. Prerequisite: course 91-92, 101 or 131-132. 3 s.h. (w) PROFESSOR JENSEN
[Offered in Summer Session, 1945]

213. Constructive Social Policies.—An intensive study of the theories and legislation dealing with such problems as compensation, vocational re-education, and other methods of social insurance and social improvement. Prerequisite: course 91-92, 101 or 131-132. 2 s.h. (w) PROFESSOR JENSEN
[Not offered in 1945-46]

215. Rural Sociology.—A study of the societies developed by people who settle the land and exploit it for a livelihood; patterns of settlement; culture; peasant, farmer, and folk societies; and rural institutions. Special attention is given to the plantation and to the rural problems of the South. Prerequisite: course 91-92, 101, or 131-132. 3 s.h. ASSOCIATE PROFESSOR THOMPSON

216. Urban Sociology.—The city and civilization. This course studies the inner life and problems of the city and its function in the larger regional and world community which it nucleates. Prerequisite: course 91-92, 101, or 131-132. 3 s.h. ASSOCIATE PROFESSOR THOMPSON

217. Race and Culture.—An analytical study of racial and cultural relations and problems of the Indian, the Negro and other minority groups in historical and contemporary situations. Prerequisite: course 91-92, 101, or 131-132. 3 s.h. ASSOCIATE PROFESSOR THOMPSON

218. Community and Society.—This course studies the dual aspect in which social life presents itself: (1) as a population group or groups, and (2) as a constellation of institutions. Prerequisite: course 91-92, 101, or 131-132. 3 s.h. ASSOCIATE PROFESSOR THOMPSON

225. Statistical Methods in Sociology.—Deals with the processes of definition, classification, measurement, tabulation, association, correlation, comparison of averages and of percentages, causation, prediction, preparation and interpretation of charts and graphs, as applied to and illustrated by sociological data. Prerequisite: course 91-92, 101, or 131-132. 3 s.h. PROFESSOR HART

227. Emigration and Immigration.—A study of territorial movements of population with special reference to Europe and America. Causes and extent of migration; its effect upon American and European society; origin and characteristics of immigrant groups and their organization in the New World; problems, agencies, and processes of assimilation. Prerequisite: course 91-92, 101, or 131-132. 3 s.h. PROFESSOR JENSEN
[Not offered in 1945-46]

236. Social Ethics.—A study of the sociological fundamentals underlying social ethics, including the controversy between materialistic and idealistic social thinkers, the nature of personalities and of social organizations, the nature of social values, types of social interaction and their effects upon general social values, underlying principles and facts of social change and the bearings of all these upon certain social problems. 3 s.h. PROFESSOR HART

237. Indians of North America.—Origin and early developments of aboriginal populations; development and distribution of tribes, their customs and languages; Indian influences on Euro-American culture; present status of the Indians; considerations of the culture-environment relationship in the light of comparisons between aboriginal and modern American life. Prerequisite: course 131. 3 s.h. ASSOCIATE PROFESSOR GILLIN

[Not offered in 1945-46]

238. Anthropological Backgrounds of Latin America.—The aboriginal races and cultures of Latin America; origins, development; distribution and variations at the time of the Discovery; Iberian and African racial importations of the past four hundred years; the contemporary fusion and mixtures in such areas as Brazil, the Andean highlands, etc., and their relation to certain contemporary problems. Prerequisite: course 131. 3 s.h. ASSOCIATE PROFESSOR GILLIN

239. Acculturation and Cultural Synthesis.—The blending of customs and other problems arising from the contact of peoples. 3 s.h. ASSOCIATE PROFESSOR GILLIN

240. The Peoples of Africa.—A survey of the aboriginal peoples and cultures of Africa from the earliest times to the present day, with special attention to the areas of origin of the American Negro. Prerequisite: course 131. 3 s.h. (w) ASSOCIATE PROFESSOR GILLIN

[Not offered in 1945-46]

242. Marriage and the Family.—An analysis of contemporary marriage and family experience with emphasis on its functions, problems, resources, and values. Not open to students who have received credit for Sociology 299 or Religion 170. Prerequisite: course 91-92, 101, or 131-132. 3 s.h. PROFESSOR HART

PROFESSOR HART

251. Special Problems in Social Pathology.—Research projects in social and personal disorganization, limited to advanced students with the approval of the instructor. Prerequisite: course 205 or its equivalent. *Both semesters.* 1 to 3 s.h. PROFESSOR JENSEN

PROFESSOR JENSEN

252. Education and Social Control.—A study of education as an agency of social progress from primitive times to the present. Prerequisite: course 91-92, 101, or 131-132. 2 s.h.

[Not offered in 1945-46]

281. Public Opinion.—The fundamental problems and processes of social control and social change in democratically organized groups; the nature and development of public opinion, its cultural and psychological bases, the role of leadership, pressure groups, prestige, propaganda, censorship, advertising, the press, the motion picture, the radio, the graphic arts, etc., in its management and dissemination. 3 s.h. PROFESSOR JENSEN

[Not offered in 1945-46]

299. Marriage and Family Counseling.—A survey of practical problems in the light of social, psychological, and spiritual fundamentals, for persons preparing for professional work. Not open to students who have received credit for Sociology 242 or Religion 170. Prerequisite: course 91-92, 101, 131-132, 236, or equivalent. 2 s.h. PROFESSOR HART

PROFESSOR HART

NAVY V-12 COURSES

S1. Sociology I.—Anthropology. 3 s.h.

S2. Sociology II.—May be substituted for Sociology 91. 3 s.h.

DEPARTMENTAL MAJOR

Students desiring to take a major in sociology are required to complete course 91-92 or 101 or 102 or 131-132 and twelve additional hours in the Department, at least six of which must be from courses numbered 200 or over.

ZOOLOGY

PROFESSOR GRAY, CHAIRMAN AND DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR BOOKHOUT, SUPERVISOR OF FRESHMAN INSTRUCTION; ASSISTANT PROFESSOR JEFFERS, SUPERVISOR OF FRESHMAN INSTRUCTION (WOMAN'S COLLEGE); PROFESSORS HALL, HARGITT, PEARSE; ASSISTANT PROFESSOR JOHNSON; DRs. WHARTON, WILSON, AND MAGALHAES; AND ASSISTANTS

UNDERGRADUATE COURSES

1. General Zoology.—A brief survey of the animal kingdom. 4 s.h. (E)

ASSISTANT PROFESSOR JEFFERS; PROFESSOR HARGITT; AND ASSISTANTS

2. Animal Biology.—The principles of biology as applied to animals. Prerequisite: Zoology 1. 4 s.h. (E)

ASSISTANT PROFESSOR JEFFERS; PROFESSOR HARGITT; DR. MAGALHAES; AND ASSISTANTS

53. Comparative Vertebrate Anatomy.—A study of the anatomy and evolution of the organ systems of vertebrates. Prerequisites: Zoology 1 and 2. 4 s.h. (W & E)

PROFESSOR GRAY; DR. MAGALHAES; ASSISTANT PROFESSOR JOHNSON

92. General Embryology.—A study of the fundamental principles of embryology as illustrated in the frog, chick, and mammal. Prerequisite: Zoology 53. 4 s.h. (W & E)

ASSISTANT PROFESSORS JEFFERS AND JOHNSON

109. Evolution.—The facts and theories of organic evolution. Prerequisite: Two years of Zoology. 2 s.h. (W)

ASSISTANT PROFESSOR JOHNSON

110. Introduction to Genetics.—The principles and practical applications of genetics as applied to animals, including man. Prerequisite: One year of Zoology. 2 s.h. (W)

ASSISTANT PROFESSOR JOHNSON

151. Comparative Physiology.—The primary functions of animals of all groups and a more detailed study of the physiological processes in mammals. Prerequisite: Zoology 53. 4 s.h. (W & E)

DR. MAGALHAES

156. Vertebrate Histology.—The microscopic structure of normal tissues and organs of the vertebrate body. Training will be given in the preparation of material for microscopic study. Prerequisite: Zoology 53. 4 s.h. (W)

PROFESSOR HARGITT

161. Animal Parasites.—With emphasis upon those infesting man. Prerequisite: one year of Zoology. 4 s.h. (W & E)

PROFESSOR PEARSE

FOR SENIORS AND GRADUATES

204. Advanced Parasitology.—Lectures, conferences, readings, and laboratory work, dealing with practical and theoretical matters relating to animal parasites. Offered in alternate years. Prerequisite: Zoology 161. 4 s.h. (W)

PROFESSOR PEARSE

219-220. Special Problems.—Senior majors who have had proper training may be permitted to carry on special work. Permission must be obtained from the Director of Undergraduate Studies and the instructor under whom the student wishes to work. Not more than 4 s.h. (w & e) STAFF

222. Entomology.—A study of anatomy, physiology, embryology, and classification of insects. Prerequisite: one year of Zoology. 4 s.h. (w) PROFESSOR GRAY

224. Vertebrate Zoology.—A study of life histories, adaptations, ecology and classification of vertebrate animals. Prerequisite: Zoology 53. 4 s.h. (e) PROFESSOR GRAY

229. Endocrinology.—The structure, physiology, and embryology of the endocrine glands. Lectures, reading assignments, reports, and laboratory work. Prerequisites: Zoology 53 and 92. 4 s.h. (w) ASSISTANT PROFESSOR JEFFERS

256. Seminar: Current Developments in Physiological Zoology.—Prerequisite: Zoology 151. Open only to Seniors. 2 s.h.

274. Invertebrate Zoology.—A study of structure, function, and habits of of invertebrate animals under normal and experimental conditions. Field trips will be made to study, collect, and classify animals in their natural habitats. Offered in alternate years. Prerequisites: Zoology 1 and 2. 4 s.h. (w) ASSISTANT PROFESSOR BOOKHOUT

276. Protozoology.—The morphology, physiology, taxonomy, and culture of protozoa. Offered in alternate years. Prerequisites: Zoology 1 and 2. 4 s.h. (w) ASSISTANT PROFESSOR BOOKHOUT

RELATED COURSES, ONE OF WHICH MAY BE COUNTED TOWARD
A MAJOR IN ZOOLOGY

Botany 101. Principles of Heredity.—3 or 4 s.h. (w) ASSISTANT PROFESSOR PERRY

Botany 103. General Bacteriology.—4 s.h. (w & e) PROFESSOR WOLF

Botany 202. Genetics.—4 s.h. (w) ASSISTANT PROFESSOR PERRY

NAVY V-12 COURSES

B1 and B2. Biology I and Biology II.—May be substituted for Botany 1-2 or Zoology 1-2.

B3. Biology III. General Embryology.—May be substituted for Zoology 92. 5 s.h.

B4. Biology IV. Comparative Anatomy.—May be substituted for Zoology 53. 5 s.h.

DEPARTMENTAL MAJOR

Prerequisites: Zoology 1 and 2.

Major Requirements: Twenty-four semester hours including courses 53, 92, 151. The remaining twelve hours may be from any other courses for which the student is eligible.

DEPARTMENTAL HONORS PROGRAM

For admission to candidacy for Honors in zoology a student is expected to have completed zoology courses 1, 2, 53, 92 and not less than eight semester hours of chemistry.

Honors work consists of regular courses and independent study; the program, however, will not be the same for all students. Zoology 151 is required of all zoology majors; the number and nature of other courses to be taken in zoology and in related subjects will depend upon the needs and interests of the student. The usual number of semester courses will be four to six in zoology and six in other subjects in the Natural Science Group.

In addition to regular courses each student shall read in such fields as history of biology and zoological theories, or in special fields, and shall undertake a special research problem under the direction of some member of the Staff whom the student may select. The student may be asked to prepare written reports on his readings and must present a written report on his research problem. Readings and problem count for nine to twelve semester hours.

At the end of the Junior year an examination will be given to test the student's ability to correlate material and to determine his fitness to continue in the Honors Group. At the end of the Senior year a special comprehensive examination covering the entire field of study must be passed.

THE COLLEGE OF ENGINEERING

ADMISSION

Admission to the College of Engineering of Duke University is on a selective basis, dependent upon the ability, attainments, and character of the applicant. No student is admitted until the Council on Admissions has received for him a scholastic record from school or college, a certificate of vaccination and of good health, and satisfactory evidence of good character and ability. Prospective students and relatives are invited to visit the University and the College of Engineering in particular. This would be advantageous to the applicant since it would enable him to acquaint himself with the facilities of the University, and to discuss possible courses of study.

Certain days are announced in the University Calendar each year for the registration, classification, and sectioning of students. Those students who are admitted later than the dates announced must pay to the Treasurer \$5.00 additional for the privilege of matriculating.

An applicant for admission to the Freshman Class in engineering must have completed at least fifteen units of preparatory work, partly in required and partly in elective subjects. A unit represents a year of work in a subject in an accredited secondary school, provided the work done in that subject is approximately one fourth of the annual amount of work regularly required in the school.

The subjects in which this credit may be offered and the maximum amount of credit acceptable in each subject are given in the following table:

UNITS		UNITS	
English	4	Botany	1
Latin	4	Zoology	1
Greek	3	General Biology	1
German	3	Physical Geography	1
French	3	General Science	1
Spanish	3	Agriculture	2
Mathematics	4	Mechanical Drawing	2
History and Civics	4	Woodwork, Forging, and	
Physics	1	Machine Work	2
Chemistry	1	Household Economics	2
		Commercial Subjects	3

For a detailed explanation of the units in the table above, see the definitions as set forth by the Southern Association of Colleges and Secondary Schools and other regional associations.

ADMISSION BY CERTIFICATE

Applicants able to submit certificates of proficiency from accredited schools in subjects accepted for admission to the Freshman Class will be

admitted without examination. These certificates must be properly made out on the regular blanks furnished by the University, signed by the principal of the school from which the applicant comes, and presented before or at the opening of the academic year. The applicant must have completed the course of the school from which he comes.

At least nine and one half of the fifteen units required for admission must come from the following:

Required Units

English	3 units
A Foreign Language	2 units
*Science	1 unit
History	1 unit
†Algebra	1½ or 2 units
Plane Geometry	1 unit

Elective Units

In addition to the above required units, sufficient elective units must be offered to make a total of fifteen. It is recommended that these electives be chosen from the following list:

Algebra	½ unit
Solid Geometry	½ unit
Trigonometry	½ unit
‡German or French or Latin or Spanish or Greek	1 to 4 units
History or Civics (not the required unit)	1 to 3 units
Physics or Chemistry or Biology (not the required unit)	1 to 3 units

ADMISSION BY EXAMINATION

Students who present fifteen units for admission from schools not accredited by the University, and students who present the proper units but whose grades are not acceptable, are required to validate their units by entrance examinations in English and in mathematics and such other tests as the University may prescribe, including the test required by the North Carolina College Conference.

Students who have not the required units in English or in mathematics but who are otherwise acceptable must, before admission, clear this deficiency by entrance examinations.

ADMISSION TO ADVANCED STANDING

Students may be admitted to advanced standing from other approved institutions under the following conditions; all applicants must have fulfilled the equivalent of the requirements for admission to the Freshman

* Wherever possible, physics or chemistry should be offered for this requirement.

† Examination required to validate offering.

‡ One elective unit in any of the above languages will be accepted for admission provided the language requirement has been satisfied without it. As many as four units will be accepted in any one of these languages.

Class, must present official certificates of all work done in other institutions, and have honorable dismissal from the institutions they previously attended.

Applicants for advanced standing should present, so far as possible, subjects corresponding to those required at Duke University. Students admitted to advanced standing may not during their first semester elect more than the minimum number of hours required of the class which they enter except by permission of the Dean. Further, in addition to other requirements, a minimum of one full year in residence at Duke University with the satisfactory completion of at least thirty semester hours of work approved for Seniors, with an average grade of "C," is required of all candidates for the Bachelor's degree.

Students who have transferred from other colleges must, in order to make their provisional classification final, pass during their first year of residence not less than the equivalent of four year-courses with an average grade of "C" or higher.

The date for the registration and classification of students with advanced standing from other institutions is announced in the University Calendar. Students who are admitted later than this date are required to pay to the Treasurer \$5.00 additional for the privilege of matriculating.

FRESHMAN WEEK

The week immediately preceding the opening of College is set aside for the induction of Freshmen. During this period health examinations, psychological tests, and placement tests are given in English and mathematics. Sectioning in these two subjects is based on the grades made on the placement tests. The Freshman are divided into groups for instruction in the use of the Library, in the regulations of the student body, and in all matters pertaining to the adjustment of the individual to a new environment. Attendance upon these exercises is required of all Freshmen.

SPECIAL STUDENTS

Students of mature age not fully prepared to enter the Freshman Class may be admitted as special students and allowed to enroll for such work as they are prepared to carry. Further, they are required to take fifteen hours of classwork a week.

FEES AND EXPENSES

Information as to fees and expenses and room accommodations applicable to the College of Engineering is given, along with similar information for Trinity College and the Woman's College, on pages 172-177.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE IN CIVIL, ELECTRICAL, OR MECHANICAL ENGINEERING

GENERAL STATEMENT

The studies for the degree of Bachelor of Science in Civil, Electrical, or Mechanical Engineering are designed for students who are preparing for civil, electrical, and mechanical or aeronautical engineering as a profession and lead to the following degrees: B.S. in C.E., B.S. in E.E., and B.S. in M.E. All curricula of the College of Engineering are fully accredited by the Engineers' Council for Professional Development, recognized accrediting agency in the field of engineering education.

Each of these degrees requires one hundred and thirty-eight semester hours of work of which one hundred and twenty must be completed with an average grade of "C." Six semester hours of electives must be taken in the Department of Economics or Political Science. If a foreign language is elected, it must be taken two years unless a student has sufficient entrance credits to enable him to pursue a more advanced course.

Prospective students should note that immediately after the final examinations in May or June a three-weeks course in surveying is given under the direction of the Summer Session. This course is required of all civil engineering students at the end of their Freshman year and is required of all other engineering students before graduation.

Courses described in the Navy V-12 Bulletin No. 101 may be offered in place of certain required courses outlined in this bulletin for the civil, electrical, and mechanical curricula.

The curricula outlined below are the prewar curricula of the Duke University College of Engineering. Since September, 1942, varying degrees of modification have been in effect, depending on the wishes of the United States armed services. With the start of the Navy College Training Program on July 1, 1943, a gradual transition into certain curricula outlined by the Navy was begun. For the duration of the Navy College Training Program at Duke University, certain curricula described in Navy V-12 Bulletin No. 101 will be offered in place of those described below. A table showing equivalent Navy V-12 courses which may be accepted as credit toward a degree of Bachelor of Science in Civil, Electrical, or Mechanical Engineering is printed on pages 157-159 of this bulletin.

GROUPS OF STUDIES FOR THE DEGREE OF BACHELOR OF SCIENCE IN CIVIL, ELECTRICAL, OR MECHANICAL ENGINEERING

GROUP I

CIVIL ENGINEERING

Freshman Year

FIRST SEMESTER		SECOND SEMESTER	
	S.H.		S.H.
Mathematics 9	5	Mathematics 10	5
Chemistry 1	4	Chemistry 2	4
English 1	3	English 2	3
Physics 17	3	Physics 18	3
Drawing G.E. 1	2	Drawing G.E. 2	2
Physical Education		Physical Education	
	<hr/> 17		<hr/> 17

Three weeks of Surveying S60 in summer. Credit 3 semester hours.

Sophomore Year

Mathematics 59	4	Mathematics 60	4
Physics 57	3	Physics 58	3
Economics 51	3	Economics 52	3
Statics G.E. 57	3	Kinetics G.E. 58	3
Surveying 61	2	Steam Engineering M.E. 55	2
Route Surveying 63	2	Route Surveying 64	2
Physical Education		Physical Education	
	<hr/> 17		<hr/> 17

Junior Year

Strength of Materials 107	3	Hydraulics 128	3
Structures 131	4	Structures 132	4
Highway 115	3	Materials 118	3
Electrical Engineering 153	3	Electrical Engineering 154	3
Elective	3	Elective	3
	<hr/> 16		<hr/> 16

Senior Year

Sanitary Engineering 123	4	Sanitary Engineering 124	3
Concrete 133	3	Concrete 134	3
Railroads 119	3	Astronomy-Navigation 112	3
Heat Power M.E. 103	3	Heat Power M.E. 104	3
Mechanical Engineering Lab. 115 ..	1	Mechanical Engineering Lab. 116 ..	1
Elective	3	Civil Engineering Project 143	3
	<hr/> 17	Elective	2
			<hr/> 18

GROUP II

ELECTRICAL ENGINEERING

Freshman Year

FIRST SEMESTER		SECOND SEMESTER	
	S.H.		S.H.
Mathematics 9	5	Mathematics 10	5
Chemistry 1	4	Chemistry 2	4
English 1	3	English 2	3
Physics 17	3	Physics 18	3
Drawing 1	2	Drawing 2	2
Physical Education		Physical Education	
	<hr/> 17		<hr/> 17

Three weeks of Surveying S60 in summer. Credit 3 semester hours.

Sophomore Year

Mathematics 59	4	Mathematics 60	4
Physics 57	3	Physics 58	3
Statics 57	3	Kinetics-Mechanism 52	4
Electrical Engineering 51	3	Electrical Engineering 52	3
Economics 51	3	Economics 52	3
Steam Engineering 55	2	Physical Education	
Physical Education			
	<hr/> 18		<hr/> 17

Junior Year

Theory of D. C. Circuits 151	4	Theory of A. C. Circuits 152	3
Hydraulics 128	3	Strength of Materials 107-109	4
Electrical Circuits Lab. 161	1	Electrical Circuits Lab. 162	1
Heat Power Engineering 103	3	Heat Power Engineering 104	3
Differential Equations 131	3	Electrical Measurements 104	3
Mechanical Engineering Laboratory 115	1	Mechanical Engineering Laboratory 116	1
	<hr/> 15		<hr/> 15

Senior Year

A. C. Machinery 257	3	A. C. Machinery 258	3
Electric Power Trans. 159	3	Electric Power Stations 158	2
Communication 261	3	Communications 262	4
D. C. Machinery 155	2	Seminar 166	1
Electrical Machinery Laboratory 163	1	Electrical Machinery Laboratory 164	1
Seminar 165	1	Electives	6
Electives	6		
	<hr/> 19		<hr/> 17

In conformance with the wishes of the United States armed services, during wartime the curriculum in electrical engineering will emphasize particularly those aspects of theory and practice which are encountered principally in the field of electrical communications. Since September, 1942, the Senior curriculum has been modified to include intensive special classroom and laboratory training in radio, with particular reference to ultra-high frequency techniques.

GROUP III MECHANICAL ENGINEERING

Freshman Year

FIRST SEMESTER

	S.H.
Mathematics 9	5
Chemistry 1	4
English 1	3
Physics 17	3
Drawing 1	2
Physical Education	

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SECOND SEMESTER

	S.H.
Mathematics 10	5
Chemistry 2	4
English 2	3
Physics 18	3
Drawing 2	2
Physical Education	

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Three weeks of Surveying S60 in summer. Credit 3 semester hours.

Sophomore Year

Mathematics 59	4
Physics 57	3
Statics, G.E. 57	3
Const. Processes 51	3
Economics 51	3
Physical Education	

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Mathematics 60	4
Physics 58	3
Kinetics-Mechanism 54	5
Steam Engineering 55	2
Economics 52	3
Physical Education	

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Junior Year

Fluid Mechanics 105	3
Str. of Materials 107-109	4
Electrical Engg. 153	3
Thermodynamics 101	3
M.E. Lab. 113	1
Elective	3

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Machine Design 150	3
Aeronautics 108	3
Electrical Engg. 154	3
Thermodynamics 102	3
M.E. Lab. 114	2
Elective	3

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Senior Year

Mechanical Option

Machine Design 151	3
Int. Comb. Eng. 155	3
Heating and Air Cond. 153	3
M.E. Lab. 159	2
Seminar 199	1
Electives	5

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Industrial Engg. 158	3
Power Plants 162	3
Refrigeration 154	3
M.E. Lab. 160	2
Seminar 200	1
Electives	5

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Senior Year

Aeronautics Option

Machine Design 151	3
Int. Comb. Eng. 155	3
Airplane Design 171	3
Aerodynamics 173	2
M.E. Lab. 159	2
Seminar 199	1
Elective	3

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Industrial Engg. 158	3
Airplane Design 172	3
Airplane Engines 156	3
Aerodynamics 174	2
Aeronautics Lab. 176	2
Seminar 200	1
Elective	3

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Note: The Aeronautics Option for Senior Mechanical Engineering students will not be offered while the Navy College Training Program is in operation.

COURSES OF INSTRUCTION, COLLEGE OF ENGINEERING

PROFESSOR HALL, DEAN; PROFESSOR BIRD, CHAIRMAN, CIVIL ENGINEERING; PROFESSOR SEELEY, CHAIRMAN, ELECTRICAL ENGINEERING; PROFESSOR WILBUR, CHAIRMAN, MECHANICAL ENGINEERING; ASSISTANT PROFESSORS HINTON, LEWIS, MEIER, AND REED; MESSRS. COOKE, HACKNEY, HAINES, JONES, KRAYBILL, MOORE, PALMER, PATTINSON, THEISS, VAIL, AND WILLIAMS

GENERAL ENGINEERING

1-2. Engineering Drawing.—The study of mechanical drawing with emphasis on drawing parts, elementary machines, dimensioning, and working drawings; pencil and ink technique; elementary drawing board geometry, including point, line and plane relations, and elementary work in developments and intersections. 4 s.h. (E) STAFF

5. Descriptive Geometry.—The study of drawing board problems involving point, line, and plane relationships; development of solids; intersections of solids and concurrent non-coplanar forces, with emphasis on practical applications. 2 s.h. (E) STAFF

51-52. Technical Drawing.—For liberal arts students in training for war service, either military or civil. Elementary principles of machine, structural, and topographic drawing. Nine laboratory hours. 6 s.h. (E) ASSISTANT PROFESSOR L. HALL

57. Statics.—Concurrent forces, parallel forces, nonconcurrent and non-parallel forces, centroids, friction, moment of inertia. Prerequisites: courses G.E. 1-2, Mathematics 9 and 10. 3 s.h. (E) STAFF

58. Kinetics.—Translation, rotation, work, energy, and momentum. Prerequisites: courses G.E. 57, and Mathematics 59. 3 s.h. (E) STAFF

107. Strength of Materials.—Elastic bodies under stress; flexure of simple, overhanging, fixed, and continuous beams; columns; combined stresses, etc. For Civil Engineering students, the laboratory work is included in course 118. Other students should take course G.E. 109 for laboratory. Prerequisite: course 57. 3 s.h. (E) STAFF

109. Strength of Materials Laboratory.—Concurrent with course G.E. 107. 1 s.h. (E) Either semester. STAFF

128. Hydraulics.—Hydrostatics; flow of water through orifices, weirs, pipes, and open channels; general principles of water wheels and turbines. Prerequisite: course 57. 3 s.h. (E) Either semester. STAFF

151-152. Elements of Cartography.—For liberal arts students in training for war service, either military or civil. Development and uses of maps and charts; scales, symbols, contours, and profiles; construction of projections; field and office computations, and control plotting; sources for compilation, and the applications of aerial photography; preliminary and final drafting, and reproduction. One-hour class and six laboratory hours. 6 s.h. (E) ASSISTANT PROFESSOR L. HALL

CIVIL ENGINEERING

PROFESSORS BIRD AND HALL; MESSRS. PALMER AND WILLIAMS

S60. Plane Surveying.—Use of instruments; transit, stadia, compass and plane table surveying; simple triangulation; determination of meridian by observation on Polaris; differential and profile leveling; setting grade stakes; calculation of bearings, latitudes, and departures; areas by planimeter; methods of plotting, survey and plot of sections of the campus by stadia, and transit and tape. Eight hours a day, three weeks, Summer Session. Prerequisites: G.E. 1 and trigonometry. 3 s.h. (E) STAFF

61. Higher Surveying.—Care and adjustment of instruments; topographical surveying; surveys and resurveys; laying out and division of land; public land system; further calculations, omitted measurements, areas by double longitude; quantities from profiles and cross sections. Prerequisite: course S60. 2 or 3 s.h. (E) MR. WILLIAMS

63-64. Route Surveying.—Thorough drill in the calculation and laying out of simple, compound, and easement curves, widening of curves, vertical curves, setting slope stakes, ordinary earthwork computations, and mass diagrams. Prerequisite: course S60. 4 s.h. (E) STAFF

70. Civil Engineering Drawing.—Elements of topographical and structural drafting. Two three-hour drawing periods. Prerequisite: course G.E. 1-2. 2 s.h. (E) MR. PALMER

112. Practical Astronomy and Navigation.—Determination of time, longitude, latitude, and azimuth. Pilotage, dead reckoning, celestial navigation. Observations and calculations. Prerequisite: S60 or with the consent of the instructor. 3 s.h. (E) PROFESSOR BIRD

115. Highway Engineering.—Location, construction, and maintenance of roads and pavements; dust prevention; road economics. 3 s.h. (E) PROFESSOR BIRD

118. Materials of Engineering.—Study and testing of materials commonly used in engineering. Prerequisite: course G.E. 107 or concurrent. 3 s.h. (E) MR. WILLIAMS

119. Railroad Engineering.—Differences between highway and railway practice affecting curves and earthwork. Frogs, switches, and crossings. Preliminary and location survey of a railway of sufficient length to secure familiarity with methods of actual practice. Paper location with estimate of cost. Prerequisite: course 63-64. 3 s.h. (E) PROFESSOR BIRD

120. Railroad Engineering.—Construction and maintenance of track and trackwork, economics, and operating conditions affecting location. Prerequisite: course 63-64. 2 s.h. (E) PROFESSOR BIRD

123-124. Sanitary Engineering.—

(a) **Hydrology.**—Factors affecting precipitation; evaporation from land and water surfaces; relation of precipitation to run-off; estimating run-off; floods and flood flows. Stream gauging.

(b) **Public Water Supply.**—Quantity and quality of water required, hydraulics of wells, reservoirs, works for purification and distribution of water. Standard laboratory tests for chemical and bacteriological examination of water.

(c) **Sewerage.**—Sewerage systems, rainfall and storm water flow, sizes of storm and sanitary sewers, sewage disposal. Standard laboratory tests of sewage. Prerequisite: course G.E. 128. 7 s.h. (E) PROFESSOR HALL

131. Steel Structures—Stresses.—Roofs, parallel chord bridges under all types of loads, inclined top chord bridges, including subdivided panels, wind bracing. Prerequisite: course G.E. 57. 4 s.h. (E) PROFESSOR BIRD

132. Steel Structures—Design.—Built beams, plate girders, tension members, compression members, tension and compression members, end posts, stringers, floor beams, pins, plates, etc. Drafting. Prerequisites: courses G.E. 107 and 131. 4 s.h. (E)
PROFESSOR BIRD

133. Reinforced Concrete.—Theory and design of reinforced concrete beams, slabs, columns. Prerequisite: course G.E. 107. 3 s.h. (E)
PROFESSOR BIRD

134. Advanced Reinforced Concrete.—Retaining walls, foundations, buildings, rigid frames. Prerequisites: courses 133 and 135. 3 s.h. (E)
PROFESSOR BIRD

135. Soils and Foundations.—Fundamental relations and soil classification, Atterberg limits, capillary phenomena and permeability of soils, soil stabilization. Different behavior of granular and plastic soils affecting the foundations of structures, earth pressure against retaining walls. Prerequisite: course G.E. 107. 3 s.h. (E)
PROFESSOR BIRD

137-138. Seminar.—Students are required to make reports and to talk on current engineering literature or on such other topics as may be assigned. 2 s.h. (E)
STAFF

143-144. Projects in Civil Engineering.—This course may be assigned by the Chairman of the Department to certain Seniors who have shown an aptitude for research in one distinct field of civil engineering, in which case it may be substituted for certain general civil engineering courses. 3-6 s.h. (E)
STAFF

240. Indeterminate Structures.—Introductory course dealing with the application of theory of least work, deflection, and rotation to indeterminate stresses. Problems are solved analytically, graphically, and by deformer. Prerequisites: course 131 and ability to read French or German. 3 s.h. (E)
PROFESSOR BIRD

ELECTRICAL ENGINEERING

PROFESSOR SEELEY; ASSISTANT PROFESSOR MEIER;
MESSRS. KRABILL AND VAIL

51-52. Survey of Electrical Engineering.—A general survey course covering the entire field of electrical engineering, intended to give the electrical engineering student a general preview of the subject as a whole. Required of Sophomores. Prerequisites: Freshman mathematics and concurrent physics. 6 s.h. (E)
ASSISTANT PROFESSOR MEIER

104. Electrical Measurements.—Direct-current and low-frequency measurements; theory, calibration, and use of laboratory standards, and of potentiometers, power and energy measuring equipment, instrument transformers. Audio-frequency measurements of impedance, current, and voltage. Two-hour class, three-hour laboratory. Prerequisites: courses 151, 161. E.E. 152, 162 concurrently. 3 s.h. (E)
PROFESSOR SEELEY

151. Theory of Direct Current Circuits.—A course consisting of lectures and recitations covering the fundamental theory of direct current circuits, and electric and magnetic fields. Prerequisites: course 51-52, Physics 57-58, Mathematics 59, 60. Mathematics 131 should be taken concurrently. 4 s.h. (E)
MR. VAIL

152. Theory of Alternating Current Circuits.—A course covering the algebra of vectors and complex quantities, nonsinusoidal waves, polyphase circuits, harmonics, and unbalanced three-phase circuits. Two-hour class, two-hour computation. Prerequisites: course 151, Mathematics 131. 3 s.h. (E)
MR. VAIL

153-154. Principles of Electrical Engineering.—An elementary course consisting of lectures, recitations, and laboratory covering the principles of direct and alternating current circuits, machinery, and their applications, designed especially for students in civil and mechanical engineering. This course includes one three-hour period in the electrical machinery laboratory per week. Prerequisite: Physics 57-58. 6 s.h. (E) MESSRS. KRAYBILL AND VAIL

155. Direct Current Machinery.—A study of the principles which underlie the design and operation of all types of direct current machinery. Prerequisites: courses 151, 161-162. 2 s.h. (E) ASSISTANT PROFESSOR MEIER

156. Electric Transportation.—Construction, operation, and uses of electric equipment in air, land, and sea transportation. Elective. Prerequisites: courses 151, 152, 161-162, or 153-154. 3 s.h. (E) MR. KRAYBILL

157. Industrial Applications of Electrical Equipment.—A course of lectures, demonstrations, and recitations dealing with the basic principles of the utilization of a wide variety of electrical equipment in industrial practice. Industrial control and motor applications with a short review of motor performance. Electronic equipment and applications. Elective. Prerequisite: course 153-154. 3 s.h. (E) ASSISTANT PROFESSOR MEIER

158. Electric-Power Stations.—A course of lectures and recitations pertaining to the design, construction, and operation of electric power stations, both steam and hydraulic. Consideration of prime movers; generating machinery; switchboards; instruments, relays, and protective devices; operation and management; visits to neighboring plants. Prerequisites: courses 151, 152, and M.E. 103-104. 2 s.h. (E) MR. VAIL

159. Electric-Power Transmission.—A course of lectures and recitations on the factors involved in the transmission of electrical energy over long distances and the use of hyperbolic functions in the solution of transmission line problems. Two-hour class, two-hour computation. Prerequisites: courses 151, 152. 3 s.h. (E) PROFESSOR SEELEY

161-162. Electrical Circuits Laboratory.—This course provides experimental verification of the theory developed in courses 151 and 152, and should be taken concurrently. Three hours per week. 2 s.h. (E) MR. VAIL

163-164. Electrical Machinery Laboratory.—A study of the technique of testing electrical machines and a thorough analysis of their performance. Concurrent with courses 155, 258. 2 s.h. (E) ASSISTANT PROFESSOR MEIER

165-166. Electrical Engineering Seminar.—Seniors are required to present reports and dissertations on material appearing in current engineering literature. Juniors may participate, but without credit. 2 s.h. (E) MR. VAIL AND STAFF

169. Electron Tubes and Circuits.—Electronic emission, static and dynamic characteristics and rectification, glow discharge tubes, amplifiers and oscillators, typical circuits. Two-hour class, three-hour laboratory. Prerequisites: courses 152, 162. 3 s.h. (E) PROFESSOR SEELEY

173-174. Projects in Electrical Engineering.—Project work may be undertaken only by those who show special aptitude, or who may have had previous experience on some problem. The consent of the Chairman of the Department must be obtained before registering. Seniors only, elective credit. 3-6 s.h. (E) PROFESSOR SEELEY AND STAFF

202. Fundamentals of Radio.—An elementary course covering the principles underlying radio communication, including vacuum tubes, vacuum-tube circuits, oscillating circuits, antennae, radiation, transmission, and reception. Designed especially for civil and mechanical engineering students. Prerequisite: course 153-154. 3 s.h. (E) MR. KRAYBILL

257-258. Alternating Current Machinery.—A course covering the theory underlying the design, construction, and operation of synchronous generators, transformers, polyphase induction and synchronous motors, single-phase motors of all types, converters and rectifiers. Prerequisites: courses 152, 155. 6 s.h. (E)
ASSISTANT PROFESSOR MEIER

261. Communication Engineering, Audio Frequency.—An advanced course on the principles underlying voice-frequency communication covering nature of speech and sound, wave propagation over metallic circuits, filters; resistance, inductance, capacitance at audio frequencies; transmission characteristics of communication equipment. Two-hour class, three-hour laboratory. Prerequisites: courses 151, 152, Mathematics 131. 3 s.h. (E)

PROFESSOR SEELEY, MR. KRAYBILL

262. Communication Engineering, Radio Frequency.—An advanced course on the principles underlying radio communication, covering vacuum tubes, vacuum-tube circuits, oscillating and coupled circuits, antennae, radiation, transmission, reception, and ultra-high frequency techniques. Three-hour class, three-hour laboratory. Prerequisite: course 261. 4 s.h. (E)

PROFESSOR SEELEY, MR. KRAYBILL

263-264. Mathematical Analysis of Electrical Circuits.—An advanced course on the detailed mathematical analysis of certain circuits used in electrical engineering, with an introduction to the use of operational calculus as applied to electrical circuits. Elective. Prerequisites: courses 151, 152, and Mathematics 131. 6 s.h. (E)

PROFESSOR SEELEY

MECHANICAL ENGINEERING

PROFESSOR WILBUR; ASSISTANT PROFESSORS HINTON, LEWIS, AND REED;
MESSRS. COOKE, PATTINSON, AND THEISS

51. Constructive Processes.—Recitation course covering fundamentals of metallurgy and general processes of casting, forging, and machining. Demonstrations of basic machining operations are made. Prerequisite: Chemistry 2. 3 s.h.
MESSRS. COOKE, PATTINSON, AND THEISS

52. Kinetics-Mechanism.—For E. E. students. Motions of particles. Applications of Newton's Laws of Motion to motions of rigid bodies. Work, energy, impulse, and momentum. Linkages, cams, gears, trains of mechanism. Three recitations, three laboratory hours. Prerequisites: G.E. 2, G.E. 57, Mathematics 59. Mathematics 60 concurrently. 4 s.h. (E)

ASSISTANT PROFESSORS HINTON, REED; AND
MESSRS. PATTINSON AND THEISS

54. Kinetics-Mechanism.—For M. E. students. Motions of particles. Applications of Newton's Laws of Motion to motions of rigid bodies; principles of work, energy, impulse, and momentum. Linkages, belts, ropes, chains, cams, gears, trains of mechanism. Three recitation hours, six laboratory hours. Prerequisites: G.E. 2, G.E. 57, and Mathematics 59. Mathematics 60 concurrently. 5 s.h. (E)

ASSISTANT PROFESSORS HINTON, REED; AND
MESSRS. PATTINSON AND THEISS

55. Steam Engineering.—Elementary principles of boilers, engines, turbines, and auxiliaries; properties of steam; fuels and combustion. Prerequisite: Physics 18. 2 s.h. (E) PROFESSOR WILBUR; MESSRS. COOKE AND PATTINSON

101-102. Engineering Thermodynamics.—A study of thermodynamic properties and processes of gases, vapor and gas-vapor mixtures; cycles; efficiencies and performance of steam power plant equipment. Three recitations. Prerequisites: M.E. 55, Physics 58, and Mathematics 60. 6 s.h. (E)

PROFESSOR WILBUR AND ASSISTANT PROFESSOR HINTON

103-104. Heat Power Engineering.—A short course in engineering thermodynamics combined with applications to power plant design. For civil and electrical engineering students. Prerequisites: Mathematics 60, M.E. 55. **6 s.h.** (E)
ASSISTANT PROFESSOR REED

105. Fluid Mechanics.—Fluid statics; kinematics of fluid flow; application of fluid dynamics theory to flow through orifices, weirs, and pipes; general principles of centrifugal pumps and turbines. Prerequisite: M.E. 54. **3 s.h.** (E)
PROFESSOR WILBUR AND ASSISTANT PROFESSOR HINTON

108. Aeronautics.—A general course applying fluid mechanics principles to airfoils, propellers, and the complete airplane. Prerequisite: M.E. 105. **3 s.h.** (E)
MESSRS. PATTINSON AND THEISS

113-114. Junior Mechanical Engineering Laboratory.—Open only to mechanical engineering students. First semester, three laboratory hours, devoted to experiments and reports in hydraulics, flue gas analyses, calorific value of fuels. Second semester, six laboratory hours, devoted to experiments and reports related to thermodynamics, such as boiler inspection, air compression, injectors, steam and fuel calorimetry. Prerequisite: M.E. 55. M.E. 101-102 concurrently. **3 s.h.** (E)
ASSISTANT PROFESSOR HINTON; MESSRS. COOKE, PATTINSON, AND THEISS

115-116. Junior Mechanical Engineering Laboratory.—For C. E. and E. E. students who are taking M.E. 103-104. Experiments and reports on measuring instruments and apparatus, flow of air, steam and water, economy of boilers, steam and internal combustion engines. Three laboratory hours. **2 s.h.** (E)
ASSISTANT PROFESSOR HINTON AND MR. PATTINSON

150-151. Machine Design.—Application of principles of strength of materials, constructive processes, and engineering drawing to design of riveted and welded connections, pressure vessels, and machine elements, followed by design of at least one complete machine. Two recitations, three laboratory hours. Prerequisites: G.E. 107, M.E. 51, M.E. 54. **6 s.h.** (E)
ASSISTANT PROFESSORS HINTON AND REED

153. Heating and Air Conditioning.—Fundamentals of heating and air conditioning, determination of heat losses and gains, design of steam, hot water and warm air heating and air conditioning systems for homes, offices and industrial buildings. Prerequisites: M.E. 102 or M.E. 104. M.E. 159 concurrently. **3 s.h.** (E)
ASSISTANT PROFESSOR REED AND MR. COOKE

154. Refrigeration Engineering.—Fundamentals of refrigeration theory and design, with applications in industry. Prerequisites: M.E. 102 or M.E. 104. M.E. 160 concurrently. **3 s.h.** (E)
ASSISTANT PROFESSOR REED

155. Internal Combustion Engines.—Principle cycles; fuels and fuel mixtures; effect of real mixtures on theoretical cycles; combustion; carburetion and fuel injection. Thermodynamic analysis of engine performance. Modern developments in the internal combustion engine. Three recitations. Prerequisite: M.E. 101-102. **3 s.h.** (E)
ASSISTANT PROFESSOR HINTON

156. Airplane Engines.—A study of the qualities desirable in an airplane engine and design calculations. These calculations include such items as indicator card, inertia and gas loads, crankshaft vibration, and fin area required for proper cooling. Three recitations. Prerequisite: M.E. 155. **3 s.h.** (E)

158. Industrial Engineering.—A study of the industrial growth and present tendencies of productive industries as concerns the engineer. Specific topics treated are: plant location; organization; production and cost controls, wage payment, etc. Seniors only. Three recitations. **3 s.h.** (E)
MR. THEISS

159. Senior Mechanical Engineering Laboratory.—Tests and reports on performance and economy of internal combustion engines, steam engines and turbines; heat transfer, radiator tests, and heat balances. Required of all Seniors in mechanical engineering. Six laboratory hours. Prerequisite: M.E. 114. M.E. 153 concurrently. 2 s.h. (E)

ASSISTANT PROFESSOR HINTON; MESSRS. COOKE AND THEISS

160. Senior Mechanical Engineering Laboratory.—Required of all Mechanical Option Seniors. Tests and reports on boiler, engine, turbine, condenser and accessories; heat transfer; refrigeration equipment. Six laboratory hours. Prerequisite: M.E. 159. M.E. 154, 162 concurrently. 2 s.h. (E)

ASSISTANT PROFESSOR HINTON; MESSRS. COOKE AND THEISS

162. Power Plant Calculations.—Study of economic and engineering factors in developing steam power plants. Consideration of the performance of boilers, prime movers, condensers and various auxiliaries in various groupings as they affect the plant heat balance. Three recitations. Prerequisites: M.E. 101-102 or 103-104. 3 s.h. (E)

PROFESSOR WILBUR

171-172. Airplane Design.—The design of an airplane to accomplish a specific purpose, this design to include three-view drawing, determination of air and inertia loads, and stress analysis as proof of structure. All work must be in a form acceptable to the Civil Aeronautics Board. Three laboratory periods. Prerequisites: M.E. 150, M.E. 108. M.E. 151 concurrently. 6 s.h. (E)

173-174. Aerodynamics.—A review of the physics of air leading into a study of airflow around aerodynamical shapes, this study progressing into an analysis of air forces that terminates in performance estimation. Two recitations. Prerequisites: M.E. 105, M.E. 108. 4 s.h. (E)

176. Aeronautics Laboratory.—This course includes performance tests on airplane engines, installation problems and operational characteristics of aircraft instruments, and tests of aerodynamical shapes in the wind tunnel. Two laboratory periods. M.E. 174 concurrently. 2 s.h. (E)

197-198. Projects in Mechanical Engineering.—This course may be assigned by the Chairman of the Department to certain Seniors who express a desire for such work and who have shown aptitude for research in one distinct field of mechanical engineering. Elective credit either semester. 3-6 s.h. (E)

PROFESSOR WILBUR AND STAFF

199-200. Seminar.—Students are required to make reports and to talk on current engineering literature or on such topics as may be assigned. 2 s.h. (E)

STAFF

NAVY V-12 COURSES

Navy V-12 courses may be substituted for College of Engineering courses as indicated below:

COLLEGE OF ENGINEERING

G.E. 1-2. Engineering Drawing.

G.E. 57. Statics.

G.E. 58. Kinetics.

G.E. 107. Strength of Materials.

G.E. 109. Strength of Materials Lab.

G.E. 128. Hydraulics.

C.E. S60. Plane Surveying.

C.E. 63-64. Route Surveying.

C.E. 112. Practical Astronomy and Navigation.

N V-12

N D1. Engineering Drawing.

N D2. Descriptive Geometry.

N A1. Analytical Mechanics-Statics.

N A2. Analytical Mechanics-Dynamics.

N CE3. Strength of Materials.

N CE4a. Strength of Materials Lab.

N CE6. Fluid Mechanics.

N CE1. Plane Surveying.

N CE10. Curves and Earthwork.

N Math. M8. Elementary Navigation and Nautical Astronomy.

- C.E. 115. Highway Engineering.
 C.E. 118. Materials of Engineering.
 C.E. 123-124. Sanitary Engineering.
 (b) Public Water Supply.
 (c) Sewerage.
 C.E. 131. Steel Structures—Stresses.
 C.E. 132. Steel Structures—Design.
 C.E. 133. Reinforced Concrete.
 C.E. 134. Advanced Reinforced Concrete.
 C.E. 135. Soils and Foundations.
 E.E. 51-52. Survey of Electrical Engineering.
 E.E. 151. Theory of Direct Current Circuits.
 E.E. 152. Theory of Alternating Current Circuits.
 E.E. 153-154. Principles of Electrical Engineering.
 E.E. 155. Direct Current Machinery.
 E.E. 161-162. Electrical Circuits Lab.
 E.E. 163-164. Electrical Machinery Lab.
 E.E. 202. Fundamentals of Radio.
 E.E. 257-258. Alternating Current Machinery.
 E.E. 261. Communication Engineering, Audio Frequency.
 E.E. 262. Communication Engineering, Radio Frequency.
 M.E. 51. Constructive Processes.
 M.E. 52. Kinetics-Mechanism.
 M.E. 54. Kinetics-Mechanism.
 M.E. 55. Steam Engineering.
 M.E. 101-102. Engineering Thermodynamics.
 M.E. 103-104. Heat Power Engineering.
- N CE17. Highway Engineering.
 N CE4. Strength of Materials Lab. I.
 N CE14. Water Supply.
 N CE13. Sanitary Engineering.
 N CE7. Structures I.—Structural Analysis.
 N CE9.+ Structures III.—Elementary Structural Design in Steel and Wood.
 N CE8. Structures II.—Theory of Reinforced Concrete.
 N CE11.—Structures IV.—Concrete Structures and Foundations.
 N CE15. Soil Mechanics.
 N EE1. Electricity and Magnetism.
 N EE3. Electric and Magnetic Circuits I.
 N EE4. Electric and Magnetic Circuits II.
 N EE10, 11. Electrical Engineering I—
 Direct-Current Apparatus and Circuits.
 Electrical Engineering II—
 Alternating-Current Apparatus and Circuits.
 N EE12a. Direct-Current Machinery and Storage Batteries.
 N EE3-4. Electric and Magnetic Circuits I and II.
 N EE15. Electrical Engineering Lab.
 N EE(5a-6a). Electron Tubes and Circuits Ia and IIa.
 N EE13a. Alternating-Current Machinery Ia.
 N EE7. High-Frequency Circuits I.
 N EE8. High-Frequency Circuits II.
 N ME. Mechanical Processes.
 N A1. Analytical Mechanics I—
 Statics.
 N ME1. Kinematics.
 N A1. Analytical Mechanics I—
 Statics.
 N ME1. Kinematics.
 N ME2. Elementary Heat Power.
 N ME4. Thermodynamics I.
 N ME4a. Thermodynamics Ia.

M.E. 105. Fluid Mechanics.	N ME3a. Heat Power Ia.
M.E. 108. Aeronautics.	N CE6. Fluid Mechanics.
M.E. 113-114. Junior Mechanical Engineering Laboratory.	N ME14. Aerodynamics.
M.E. 115-116. Junior Mechanical Engineering Laboratory.	N CE6. Fluid Mechanics.
M.E. 150-151. Machine Design.	N ME3a. Heat Power Ia.
M.E. 154. Refrigeration Engineering.	N ME15, 16. Mechanical Design I, II.
M.E. 155. Internal-Combustion Engines.	N ME13. Refrigeration.
M.E. 158. Industrial Engineering.	N ME11. Heat Power II—Internal-Combustion Engines.
M.E. 159. Senior Mechanical Engineering Laboratory.	N GE3. Industrial Organization.
M.E. 160. Senior Mechanical Engineering Laboratory.	N ME10. Naval Machinery.
M.E. 162. Power Plant Calculations.	N ME11. Heat Power II—Internal-Combustion Engines.
	N ME12. Heat Power III—Steam Power.
	N ME10. Naval Machinery.

GENERAL REGULATIONS

TRINITY COLLEGE, WOMAN'S COLLEGE, AND COLLEGE OF ENGINEERING

Under the accelerated wartime program and in keeping with the Navy schedule, Trinity College and the College of Engineering will be operated on semesters of sixteen weeks each, the first semester beginning on or about July 1, the second semester on or about November 1, and the third semester on or about March 1.

The Woman's College will operate as in the past on a two-semester basis, the fall semester opening in the middle of September.

It is important that all students be present on the first day of the session, for those who are late incur the penalties described in this catalogue under the topic "Admission to College" and below under the sub-topic "Course Cards." Students who enter after the beginning of the semester are marked absent in the work they have missed in the courses to which they are admitted, and these absences carry the same penalty as do other absences from the courses.

MATRICULATION, REGISTRATION, AND ENROLLMENT

All students must appear before the Committee on Admission and obtain cards for admission. Cards of admission must be presented at the Treasurer's Office at the time of matriculation. All students, both old and new, are required to matriculate at the beginning of each semester and to obtain from the Treasurer a certificate of matriculation which serves also as an enrollment card. Students matriculating in either semester at a date later than that prescribed in this catalogue shall pay to the Treasurer a penalty of \$5.00 for late registration. Students whose course cards have been approved in the spring in the manner provided below are given an opportunity during the summer to matriculate by mail for the first semester. No student without a matriculation card is admitted to any class.

COURSE CARDS

Members of the Freshman, Sophomore, and Junior classes are required to submit to the Dean, not later than the date of spring registration, cards showing their selection of courses for the following year. These cards must be approved by the Dean. After being approved, the cards must be filed for permanent record in the Dean's Office. Students in the Freshman, Sophomore, and Junior classes who do not select their courses for the following year at the time appointed must pay a fee of \$5.00 to the Treasurer of the University before their course cards may be approved in the fall. The same regulations apply for the second semester. Students whose course cards have been approved but who, for reasons

not arising within the University, desire to make a change in the card approved are required to pay to the Treasurer a fee of \$1.00 for each change made. No course may be elected later than two weeks after the opening of the semester.

If a student drops a course without permission from the Dean of the College, the grade for that course shall be recorded as "F."

If a student drops with permission a course in which he is failing at that time, the grade for that course shall be recorded as "F" unless in the judgment of the Dean, circumstances do not justify this penalty.

EXAMINATIONS

Midyear and final examinations are held in all subjects in January and May, respectively. These dates are different for examinations held under the accelerated wartime program. The examination record combined with the record made in class constitutes the student's final grade.

REGULATIONS REGARDING GRADES

The following regulations have been adopted by the Faculty:

Grades shall be reported so as to indicate one of four things:

(1) *Passed.* A grade of "A," "B," "C," or "D" shall indicate that a student has passed a course. The work of this group of students shall be graded according to the following system: "A": exceptional; "B": superior; "C": medium; "D": inferior.

(2) *Failed.* A grade of "F" shall indicate that the student has failed in the course and that in order to receive credit for the course he shall be obliged to take the work again in class.

(3) *Incomplete.* (a) A grade of "I" may be reported by the instructor if for any reason he is unable to report the final grade at the regular time. (b) All students with incomplete grades who have not satisfied the requirements of the departments concerned and who have not obtained a passing grade before the close of the semester following the date of the regular examination in which the "I" was incurred are regarded as having failed on the course concerned and must repeat the work in class in order to receive credit.

(4) *Absent from Final Examination.* (a) The grade "X" shall indicate that the student was absent from the final examination. (b) A student absent from examination and marked "X," if his absence has been excused by the Dean of the College, may receive an examination on the payment of a fee of \$3.00 to the Treasurer of the University. The department concerned shall arrange for the examination in cases where absences are incurred and excused, and the grade reported in these cases shall be that earned by the student. (c) All students (with "X" grades) who have not satisfied the requirements of the department concerned and who have not obtained a passing grade before the close of the semester following the date of the regular examination in which the "X" was incurred, are regarded as having failed on the course concerned and must repeat the work in class in order to receive credit. (d) If a student's

absence from an examination is not excused by the Dean of the College, his grade for the course concerned shall be recorded as "F."

EXPLANATION OF QUALITY-POINT SYSTEM

The requirements for the degree are reckoned not only in semester hours but also in quality points. Quality points are the points earned by a student, according to his grades, for each semester hour of credit. The grade "A" gives three quality points for each semester hour of credit; the grade "B," two quality points; the grade "C," one quality point. The grade "D" carries no credit in quality points. For the grade "F" one quality point is deducted for each semester hour of failure. Credit for 120 quality points, exclusive of those earned in physical education, is required for the degree of Bachelor of Arts or Bachelor of Science in all groups.

NUMBERS OF HOURS OF CLASSWORK

Without special permission of the Dean, no undergraduate student is allowed to take less than fourteen semester hours of classwork a week.

The normal maximum credit work of an undergraduate student in the colleges of arts and sciences is fifteen, or seventeen semester hours (if one course is an eight semester hour science), and the permissible maximum is nineteen semester hours. This maximum, however, cannot be taken by a student who has not earned at least a "C" average on his work of the preceding semester.

CLASS STANDING

For a student to rank as a Sophomore, he must have to his credit twenty-four semester hours with an average grade of "C"; as a Junior, fifty-four semester hours with an average grade of "C"; as a Senior, ninety semester hours with an average grade of "C."

SENIOR WORK

A student of the Senior Class irrespective of his average grade in preceding years, must, in order to be eligible for graduation, complete the work of his Senior year with an average grade of "C" or better.

EXCLUSION FOR FAILURE

A student of the Freshman Class entering college for the first time is not permitted to remain in the University in the second semester unless he passes as much as six semester hours of the work of the first semester; any other student is not permitted to remain in the University in the second semester unless he passes as much as nine semester hours of work in the first semester.

A student of the Freshman Class is not permitted to re-enter in September, nor to enter the Summer Session, if he did not pass at least six semester hours of work in the second semester of the previous year and a total of eighteen semester hours of work for the entire year; any other

student is not permitted to re-enter in September, nor to enter the Summer Session, if he did not pass at least nine semester hours of work in the second semester of the previous year and a total of eighteen semester hours of work for the entire year.

STUDENTS TRANSFERRING FROM OTHER INSTITUTIONS

Students whose advanced credits from another institution are accepted by the University will be given an average grade of "C" on the semester hours with which they are credited, provided their grades warrant it.

DEFICIENCIES IN COMPOSITION

The following regulations have been adopted by the Faculty:

1. Any Freshman who is found by the English Department to be unable to handle satisfactorily the work of composition in English 1-2 is required to take special work until he is able to do satisfactorily the regular work of English 1-2.

2. No student who has failed in English 1-2 or 53 is permitted to become a special student without continuing his work in composition until he has made up his deficiency in this work.

3. Whenever the work of a student in any subject is satisfactory to an instructor except for gross errors in English, the instructor concerned may hand in a provisional grade only. This grade may not be recorded in the college files until the student shall have improved his work in composition to the satisfaction of the English Department. A list of such provisional grades, along with evidence of deficiencies, shall be furnished the English Department each term by the officers in charge of the grades, and a report shall be made by this department when the deficiencies shall have been removed.

4. All instructors are requested to advise their students each semester concerning these regulations.

CANDIDATES FOR ACADEMIC DEGREES

1. A tentative list of all candidates for the Bachelor's degree shall be prepared under the supervision of the Dean of the College as early in the college year as possible, shall be read by him to the Faculty at its first regular meeting in October, shall be furnished in copy to each department of instruction for information and reference, and also shall be posted in copy on the official bulletin board of the University for the information of the students concerned. Dates are subject to change in Trinity College and the College of Engineering under the wartime schedule.

2. Copies of the second such tentative list likewise shall be prepared, read, and distributed by April 15.

3. A final list of all candidates for the degrees shall be read by the

Dean to the Faculty at its first regular meeting in May and shall be adopted by the Faculty as the final list. After the adoption of this list no name may be added to it.

A student who completes in a summer session the work required by the University for the Bachelor's degree will be granted the degree at the end of that session.

CLASS ATTENDANCE

TRINITY COLLEGE AND THE COLLEGE OF ENGINEERING

Absence of an undergraduate civilian student of Trinity College or the College of Engineering from his classwork is excused only if the absence is unavoidable, due to illness, or approved beforehand by the Dean of the College. Punctual attendance also is required; both tardies and absences are reported at the end of each week to the Dean's Office by every instructor. They must be explained promptly by the student to the satisfaction of the Dean; otherwise they are regarded as unexcused. For the first unexcused absence from a course, the penalty is the loss of one quality point in that course; for the second from that course, the loss of an additional quality point in the course and probation in the course; for the third from that course, removal from the course with a loss of quality points equivalent to the semester hours credit of the course. Three unexcused tardies in a course carry the same penalty as one unexcused absence from that course; four in a course, that of two unexcused absences from that course; five in a course, that of three unexcused absences from the course. A student shall be recorded as tardy if he is not present at roll call. A student who is dropped from two or more courses for excessive absences or tardies is dismissed from college for the rest of the semester.

Instructors' weekly attendance reports are filed in the Dean's Office and become a part of the permanent record of all students. No instructor has the authority to excuse either tardies or absences of students.

THE WOMAN'S COLLEGE

Regular and punctual attendance in classwork is expected of all students.

Weekly reports of all absences from class are made by each instructor and are filed in the Dean's Office. A permanent record of the attendance of each student becomes a part of her general college record. The instructor has no authority to excuse a student from class attendance, and it is his duty to report all absences, for whatever cause, to the Dean's Office at the end of each week.

In order to provide for an occasional short illness or for a sudden emergency, one absence per semester-hour credit may be incurred in each course during each semester without penalty, but no consecutive absences, except for illness or unless excused beforehand by the Dean, may be taken in any course, unless the class is scheduled on consecutive days. As stated above, the purpose of this rule is to provide for those absences

made necessary by illness and various emergencies, and students should reserve them for such occasions.

For any consecutive absences from a course, except for illness in the Infirmary, excuse from the Dean's Office is necessary. Excuse for absence due to prolonged illness or to authorized representation of the University in a student activity must also be obtained from the Dean's Office.

After the total number of absences allowed in any course has been incurred by a student for any reason whatsoever, no further absences, except those excused by the Dean, may be incurred.

No absences on days immediately preceding or following a holiday will be allowed.

PENALTIES FOR UNEXCUSED AND EXCESS ABSENCES

For each excess unexcused absence in any course, for each unexcused consecutive absence in any course, and for each unexcused absence before or after a holiday, the student will lose one-half semester hour from the total number of semester hours credit.

In addition, for excess absences a student may, at the discretion of the Dean, be put on probation or dropped from college.

The above regulations do not apply to women enrolled in the Navy Program, as they are allowed no absences without an excuse from the Dean.

ASSEMBLY AND CLASS MEETINGS

TRINITY COLLEGE AND THE COLLEGE OF ENGINEERING

There shall be held on the first Thursday of each month of the college year in Page Auditorium, from 12:30 P.M. to 12:50 P.M., an assembly of all Seniors, Juniors, and Sophomores of Trinity College, and at this period of the day separate meetings of these three groups on the second, third, and fourth Thursdays of each month. There shall be a class meeting of the Freshman Class on each Saturday of every month at the time named above. The Engineering assemblies are held on the first Wednesday of each month from 12:30 P.M. to 12:50 P.M. in 104 Asbury.

Attendance upon all of these meetings is compulsory for all students involved. Any student incurring in a semester a total of more than four absences from them automatically excludes himself from college.

WOMAN'S COLLEGE

A weekly assembly is held for all students in the Woman's College, and an additional assembly for all Freshmen and transfer Sophomores. A meeting of the Freshman Class is held each week, and other classes meet at appointed times.

Attendance upon all of these meetings is compulsory for all students involved.

SCHOLASTIC REGULATIONS FOR ATHLETIC AND OTHER ORGANIZATIONS

The following regulations have been adopted by the Faculty:

1. Any student who receives less than a passing grade on more than six hours of his required work of the preceding term shall be ineligible to represent the University in any athletic contest, concert, or other public event.

2. Members of athletic teams or other student groups engaging in public representation of the University are expected to be carrying satisfactorily their current work. A student may be barred from participation in such representation if, in the opinion of the Dean, he is not doing satisfactorily his current work.

Duke University is a member of the Southern (Athletic) Conference and observes the following scholastic requirement of that Conference:

"The scholastic requirement for eligibility to participate in varsity intercollegiate sports shall be the passing by the applicant of a minimum of twenty-four semester hours or thirty-six quarter-hours of the work of his immediately preceding year in college; with the proviso that graduate students and students in the schools of law and medicine become scholastically eligible on the certificate of the deans of their schools."

THE ATHLETIC COUNCIL

The Board of Trustees, at its regular annual meeting in June, 1907, created an Athletic Council to be composed of eleven members appointed annually: three from the Faculty, to be appointed by the President of the University; four from the alumni, elected by the Alumni Association; and four from the undergraduates, one from each of the four classes, elected by the members of each class.

The three members of the Athletic Committee of the Faculty are the Faculty representatives in the Athletic Council. This committee alone has the responsibility of enforcing the scholastic and athletic requirements of the University for student participation in intercollegiate sports. The athletic eligibility rules are those of the Southern Conference; the scholarship requirements are printed elsewhere in this catalogue.

The Executive Committee of the Athletic Council is composed of the Chairman of the Faculty Committee on Athletics, and one other Faculty member and one alumni member of the Council. The Athletic Council on recommendations of its Executive Committee arranges athletic schedules, awards insignia of merit earned by members of athletic teams, and strives to promote among students of the University a proper and helpful athletic spirit; to encourage good fellowship in such sports both within the student body and toward student bodies of other educational institutions; through athletic sports to help cultivate a high sense of honor, earnest, unselfish effort, and manly conduct. The Executive Committee of the Council recommends to the President of the University persons to serve

as Graduate Manager of Athletics and as coaches in the various sports. The election of such persons, however, rests solely with the Trustees of the University or the Executive Committee of the University, on recommendation of the President of the University.

All funds arising from athletics are handled entirely by the Treasurer of the University. An audit of the receipts and disbursements of these funds is made annually by the official auditors of the University.

CONDUCT OF STUDENTS

The University expects of its students loyal and hearty co-operation in developing and maintaining high standards of conduct as well as of scholarship. The University therefore reserves the right, and matriculation by the student is a concession of this right, to ask the withdrawal of any student whose conduct at any time is not satisfactory to the University, even though no specific charge be made against the student.

ADMINISTRATION OF DISCIPLINE

General oversight of the conduct of students and the administering of discipline are vested in the Dean of the University. The duty of immediate supervision, guidance, and control of the students in each college is entrusted to the Dean of that College. However, through the expressed willingness of the students of the University to assume the responsibility of maintaining high standards of morals and honor at all times the student body has properly become in a great degree self-governing in this respect. Two councils, one of men and the other of women, each composed of carefully chosen and duly elected representatives of the student body, exercise the authority granted the students to investigate all cases of misconduct, as well as all other cases of violation of proper student standards and traditions and to make recommendations of penalties based on their findings. Occasions seldom occur where such recommendations are not accepted and enforced.

The student councils have been of great help to the administrative authorities of the University. They not merely exercise police authority for restraining and punishing evildoers but also exert a guiding and stimulating influence for the promotion of high ideals of conduct and student relationships.

REGULATIONS REGARDING PUBLIC LECTURES AND OTHER PUBLIC OCCASIONS

All public lectures or addresses and other public events that are given under the auspices of the University or of any organization in any way connected with the University are under the supervision of the Faculty Council on Public Lectures. All dates and programs must be approved by this council except in instances where such occasions have been placed under the supervision of the Director of Public Relations.

(1) The Council on Public Lectures shall provide each year an official calendar.

(2) All public occasions held on either the East or West University Campus are listed for the Weekly Calendar of Duke University in the office of the Department of Public Relations and Alumni Affairs in the West Campus Union. This calendar appears each Saturday, and such notices must be received by 10:00 A.M. on the Friday preceding.

Social or other events held in the West Campus Union must be listed in the office of the Director of Public Relations and Alumni Affairs, and permission must be secured for such social use of the public rooms in the building.

REPORTS

Reports of the class attendance records and of the proficiency of each student in studies are sent to his parents or guardians after the examinations at the end of each semester. For Freshmen, mid-semester reports are made.

HEALTH AND PHYSICAL EDUCATION

The program of Health and Physical Education in Duke University has four distinct phases, as follows:

1. Student Health.
2. Physical Instruction.
3. Intramural Sports.
4. Intercollegiate Athletics.

MEDICAL CARE

With the exceptions noted below, full medical and surgical care is furnished to all regularly matriculated students of the University, during both the college year and the summer quarter, at no additional cost to them beyond the medical fee of \$5.00 payable each semester or the medical fee charged each student of the summer quarter. This service is under the direction of the University Physician with the co-operation of the Staffs of the Infirmarys (one on each campus) and the University Hospital. It includes hospitalization (limited to thirty days), medical and surgical care, drugs, dressings, X-ray work, and ward, but not special nursing. A charge for board is made at the same rate as in the University dining halls, and student meal tickets for these halls are accepted in payment of this board. Refraction of eyes, treatment of teeth and of all chronic and pre-existing conditions, such as diseased tonsils, hernias, elective surgery, chronic skin conditions, endocrine disturbances, etc., or accidents or illnesses occurring during vacations or while off the campus, are not included in this service. The cost of any necessary braces and orthopaedic appliances, as well as of special nursing, must be borne by the student.

No illness is treated in dormitory or other rooms occupied by students. Students needing treatment for minor medical or surgical conditions have the attention of the Director at his two daily visits to the Infirmarys, which have day and night nurses on duty. Students developing serious

conditions are promptly transferred from the Infirmary to the University Hospital, where they come under the care of the Staff of the Hospital.

A questionnaire is sent out from the office of the Director of Student Health in the spring to all prospective students, advising certain medical and surgical care by their home physician or surgeon, such as the giving of typhoid or smallpox vaccine, removal of diseased tonsils, correction of errors of refraction, repair of a hernia, or removal of a chronic appendix. Important time is frequently lost in correcting these conditions after entrance into college, and the cost for this work must be borne by the student.

When the student comes to the University, he is given a careful physical examination. Any physical defects are recorded along with the record of the questionnaire from the family physician. All students are requested to be successfully vaccinated against smallpox before admission to the University. It is urgently advised that they take typhoid vaccine if they have not done so within three years.

PHYSICAL EDUCATION AND INTERCOLLEGIATE SPORTS TRINITY COLLEGE AND THE COLLEGE OF ENGINEERING

The University requires all students to engage in some type of physical activity for two years or four full semesters. This work consists of participation in natural, practical, physical activity for at least three one-hour periods each week. A credit of six hours, with an average grade of "C," is required in physical education for graduation. The purpose of this work is to improve body control and strength through big muscle activities, to stimulate the development of mental and physical alertness, to establish habits of regular exercise, and to give training and experience in various kinds of recreational sports that will be indulged in after the student graduates from the University.

Intramural sports are fostered and promoted in all lines of athletic activity. Meets, tournaments, and leagues are seasonally organized in the different sports. All students in the University are eligible to enjoy the intramural privileges, provided they comply with the intramural rulings. Participation in these activities is entirely voluntary, but is very popular because it provides an opportunity for every man to enter into competition and recreation in those sports which he enjoys most.

The intercollegiate athletic program is controlled entirely by the University and consists of the organization and training of representative Freshman and varsity teams in the following sports: football, basketball, baseball, track, cross country, swimming, lacrosse, wrestling, tennis, and golf.

WOMAN'S COLLEGE

The Physical Education Department aims to give all students an appreciation of the value of activity for general physical well-being, skill in one or more activities which can be enjoyed as recreation after college, a well-developed and well-coordinated body and a knowledge of good posture and efficient handling of the body in everyday activities.

To this end, students are allowed to choose from a large number of activities including outdoor individual, dual, and team sports; several types of dancing, swimming, and gymnastics. All Freshmen are expected to take body mechanics in the winter, and each student must elect a rhythm, one team sport, and two individual or dual sports sometime during the three years of required physical education.

With the wartime emphasis on physical fitness for women as well as men, the more vigorous activities are being stressed. At present, therefore, all required work must be elected from the group of activities designated by the Department as vigorous. Light activities may be elected in addition to the required work.

In addition to the required work in physical education the Dance Club, the Swimming Club, and the Woman's Athletic Association give opportunities for all students to take part in the types of intramural activities most interesting to them. The swimming pool, tennis courts, and other athletic equipment are available to all students for use at specified times.

PHYSICAL EDUCATION AND RECREATION FEES

In order to meet certain hygienic aspects of physical education and intramural athletics the University has made available for all students, in addition to facilities for physical activity and recreation, the following equipment and services:

1. (a) Men. A regulation uniform: shirt, trunks, supporter, socks, sweat clothes, and towel.
- (b) Women. Gym suit, dance costume, bathing suit, warm-up suit.
2. Provision for locker and handling of uniform.
3. The laundering of uniform and towel as needed.

The privileges and services listed above are available to all students upon payment of the Recreation Facilities and Equipment Fee, so long as they comply with the rules and regulations established for the care and handling of same. Students enrolled in required physical education courses have been assessed an additional fee (see Laboratory and Materials Fees). This fee is necessary in order to make more equitable the maintenance of locker system and usage of uniform.

PUBLICATIONS COUNCIL

The student publications of the University are under the control of a council that was established in 1924 and reorganized by the Executive Committee of the University in 1935, and is constituted as follows: three (3) members from the University Staff appointed by the President of the University; two (2) members from the alumni appointed by the President of the University; six (6) men from the Junior and Senior classes, elected by the students in Trinity College and the College of Engineering; four (4) women from the Junior and Senior classes, elected by the students in the Woman's College; and three (3) editors and three (3)

managers of student publications, ex officio members without any voting power. With the advice of the Council, the President of the University appoints each year for each publication an advisory committee of three (3) members from the Staff of the University.

No student publication can be started at the University without the approval of the Council.

RELIGIOUS EXERCISES

Chapel exercises are conducted throughout the academic year at 7:00 P.M. Thursday on the campus for men. Preaching services are held on Sunday at 11:00 A.M. in the University Chapel. Organ recitals and special programs are given from time to time on Sunday afternoons. In the summer carillon and organ recitals are given twice a week.

APPOINTMENTS OFFICE

The University maintains an Appointments Office, and its services are extended to all students and alumni without charge. This office has two divisions, commercial (general placement) and educational (teacher placement). Students and alumni are encouraged to register with the office in order to make available in one center information respecting their various qualifications for the employment they seek.

FEES AND EXPENSES

The following tables show the general fees and charges collected from all students and the special fees collected from those taking courses in the sciences and in history. All fees for each semester are due and payable, unless otherwise specified, at the time of registration at the beginning of that semester, and no student is admitted to classes until arrangements have been made with the Treasurer of the University for the settlement of fees.

GENERAL FEES

Matriculation, per semester.....	\$ 25.00
Tuition, per semester.....	100.00
Room-rent—See the detailed statement that follows.	
Athletic Fee, admitting students to all athletic contests held on the University grounds, per semester.....	5.00
*Recreation Facilities and Equipment Fee, per semester.....	1.00
Damage Fee, payable annually at the time of first registration.....	1.00
Medical Fee, per semester.....	5.00
Library Fee, per semester.....	5.00
Commencement Fee, payable annually at the beginning of the second semester	3.00
Publication Fee:	
First semester.....	3.00
Second semester.....	2.50
Diploma Fee, payable by candidates for degrees, refunded if the diploma is not awarded.....	5.00

LABORATORY AND MATERIALS FEES

Botany 1, 2, 52, 55, 101, 104, 202, 204, 221, 255, and 256.....	\$ 2.50
Botany 51, 103, 151, 156, 203, 216, and 252.....	5.00
Forest Botany 224 and 253.....	2.50
†Chemistry 1, 2, 61, 70, 131, 132, 153, 154, 215, 216, 261, and 262.....	7.00
Chemistry 151, 152, 155, 241, 242, 253, and 254.....	8.50
Education 1, 58, 68, and 101.....	1.00
Education 112, 115, 116, 122, and 131.....	7.50
Education 208 (for testing materials in lieu of text).....	2.50
Engineering	
Civil S60—See <i>Summer Session Bulletin</i> .	
Civil 61, 63, 64, 112, 118, 123, 124, 135, 143, 144, and 240.....	2.00
Electrical 153, 154, 161, 162, 163, 164, 261, 262.....	2.00
General 109.....	2.00
Mechanical 113, 114, 159, 160, 176.....	2.50
Forest Botany 224 and 253.....	2.50
Forestry 224, 253, 254, 259, 260, 264, 357a, and 358a.....	2.50
Forestry 261, 351, 352, 354, 357b, 358b.....	\$2.50 to \$5.00
Geology 51, 52, 53, 64, 101, 151, and 152.....	2.50
Geology 102.....	5.00
Field trip in Geology 51-52 and 101-102 at cost.	

* See Physical Education and Intercollegiate Sports.

† When the laboratory in Chemistry 153-154 supplements that of another course and is taken simultaneously with such course, no fee is charged with Chemistry 153-154.

History 91 and 92.....	3.00
No texts are required in these courses, but a fee of \$3.00 is charged, and books placed in the Library for the use of those taking the courses. This fee is payable at the beginning of the semester and is collected through the office of the Treasurer of the University.	
*Physical Education, per semester, for men.....	1.50
*Physical Education, per semester, for women.....	1.00
Physics 1 and 2.....	2.00
Physics 51, 52, 57, 58, 61, 62, 70, 103, 104, 108, 215, 216, 217, 218, and 219	3.00
Physics 106.....	5.00
Zoology 1, 2, 92, 161, 204, 219, 220, 222, 274, 276, 306, 324, 343, 353, and 354	3.00
Zoology 53, 151, 156, 224, 229, 303, and 321.....	5.00

TEACHERS TAKING COLLEGE COURSES

Teachers in near-by schools, taking one or two courses, are required to pay a registration fee of \$5.00 each semester and a tuition fee of \$3.00 per semester hour of credit in addition to any regular laboratory fee or other fees collected from those students taking the courses.

ESTIMATED EXPENSES FOR AN ACADEMIC YEAR

The necessary expenses of a student are moderate; the University dormitories provide thoroughly comfortable and wholesome living conditions at a minimum of cost, while all charges made by the University have been kept low. Incidental expenses depend naturally upon the tastes and habits of the individual, but the actual necessary college expenses for one year, including board, room-rent, and such University fees as tuition, matriculation, commencement, library, damage, and medical, vary from \$574.50 to \$639.50 for a two-semester year. Books and laundry are not included in these figures.

LIVING ACCOMMODATIONS FOR MEN

Single room, per semester—Craven, Crowell, and Kilgo Quadrangles, West Campus.....	\$75.00
Double room, per student, per semester—Craven, Crowell, and Kilgo Quadrangles, West Campus.....	62.50

There are three groups of resident houses designated as Craven, Crowell, and Kilgo Quadrangles on the West Campus. The rooms are single, double, or arranged in suites of two rooms for four students. There are thirty-one houses within the three groups designated by the letters of the alphabet.

There is one building definitely assigned as a Freshman dormitory.

Rooms are reserved only for applicants who have been officially accepted by the University, upon application to the Director in the Business Division, Duke Station, Durham, North Carolina. A reservation fee of \$25.00 at the office of the Director in the Business Division is required. This reservation fee is deducted from the room charges at the time of registration for the fall semester.

* See Physical Education and Intercollegiate Sports, p. 169.

A resident student in order to retain his room for the succeeding semester is required to make application accompanied by a reservation fee of \$25.00 at the office of the Director in the Business Division. All rooms which have not been reserved on or before an announced date will be considered vacant for the succeeding semester and will be reserved in the order in which applications are made.

Rooms are rented for no shorter period than one semester, or in the case of a medical student, one quarter, unless by special arrangement with the Director in the Business Division. A period of occupancy other than a semester or quarter and without special arrangement will be charged at a minimum rate of \$1.00 each day.

The exchange of rooms may be arranged for at the Housing Bureau within fifteen (15) days after the official opening of the semester or quarter of the school term. A charge of two dollars (\$2.00) will be made for the exchange of rooms after the periods allowed for such exchange. Persons exchanging rooms without the approval of the Housing Bureau will be subject to charges for both rooms.

The authorities of Duke University do not assume the responsibility of selecting and assigning roommates, though they will gladly render any assistance possible.

DORMITORY REGULATIONS

Duke University is particularly eager that its students shall have the best dormitory life to be found in any institution, and to encourage this has provided buildings and equipment which are not surpassed. The institution asks and believes that in return each student will respond to this effort by arranging his personal belongings in an orderly manner, and by caring for the buildings and furniture as he would do in the home of a friend. The following regulations are offered as a guide and a reminder that care is desired.

1. The student will be held responsible for any damage to the room or furnishings during the rental period, and will pay for all damages caused by his neglect, misuse or abuse of any part of the University property. Inspections will be made throughout the college year to observe the condition of the rooms and to advise students concerning the care of rooms, if necessary.

2. Maids will prepare the rooms daily except Sunday, the service beginning promptly at 8:00 A.M. and ceasing at 1:00 P.M., thereby giving the student complete use of his room during the afternoon.

3. University furniture or furnishings must not be removed from the room in which they have been placed by the University.

4. Electric wiring, door locks, window screens, steam or water lines should not be changed or added, since the University supervises and makes such changes as are necessary and advisable.

5. Pictures, pennants, clippings should be hung from the picture moulding and not tacked or pasted on walls or woodwork.

6. Each student is expected to supply necessary sheets, blankets, pillows, rugs, and curtains. Furniture, beds and mattresses (39" x 74"), tables, chairs, dressers, mirrors, and window shades are furnished by the University.

7. All trunks and heavy luggage will be stored in the trunk rooms. Janitors will remove the trunks from the hallways to the storage rooms when they are unpacked.

8. The exchange of rooms or keys should be arranged for at the office. Any exchanges made otherwise will subject the participant to charges for both rooms.

9. The use or possession of intoxicating liquors, wines or beer, and gambling in any manner in any of the buildings or on the grounds of Duke University are forbidden.

10. Animals shall not be kept in the dormitories.

11. Women are permitted in the dormitories only when accompanied by the University Hostess.

12. The use of dormitory rooms as a sales office or storeroom, or the solicitation for sales or gifts within the buildings or on the grounds is prohibited except by appointees of the University.

LIVING ACCOMMODATIONS FOR WOMEN

The Woman's College campus, known as the East Campus, is situated about a mile and a quarter from the West Campus, with a private road connecting the two.

Houses—The eight residence houses on the East Campus are Alspaugh, Aycock, Bassett, Joseph G. Brown, Giles, Jarvis, Pegram, and Southgate. A plan of the houses will be sent upon request to the Director in the Business Division, College Station, Durham, North Carolina. Each house has a resident head of house and paging system for announcing visitors.

Rooms—All questions concerning rooms should be addressed to the Director in the Business Division. The students' rooms are single, double, or arranged in suites of two rooms for two students.

Room Furnishings—Rooms are supplied with all necessary furniture. Curtains, towels, sheets, pillow-slips, blankets, and heavy bed covering, etc., are furnished by the students. Sash curtains of a standard type are required and can be bought at the College Store. Draperies, small scatter rugs, and study lamps can be brought from home or bought at reasonable prices from the College Store or in the city. Large rugs and heavy overstuffed furniture may not be brought into the dormitories.

Room-rent—

Single room, per student, per semester, Giles, Alspaugh, Pegram,
Bassett, Brown, Jarvis, Aycock, and Southgate Houses.....\$87.50

Double room, per student, per semester, Giles, Alspaugh, Pegram,
Bassett, Brown, Jarvis, Aycock, and Southgate Houses..... 62.50

Room Reservation—A room reservation fee of \$25.00 is required before any room reservation can be made for new or returning students. This fee is deducted from the room charges at the time of registration for the fall semester. Applicants for admission are requested not to send the room reservation fee until notified of acceptance. Those who make application and are accepted will not be entitled to have the reservation fee refunded unless the request is made on or before July 15. Those who are accepted after July 15 have ten days in which to pay their room reservation fee. This fee is not refundable.

No room assignments will be made for new students until they have been officially accepted by the Council on Admissions. The room reservation fee of \$25.00 is payable immediately upon notification of acceptance by the Council on Admissions. If room reservation fee has not been received within ten days after notification of acceptance by the Council on Admissions, the admission will be canceled.

Details relative to the signing of rooms by resident students will be posted on dormitory bulletin boards about April 15. Resident students have the right

to retain their rooms for the ensuing year or to sign for new ones in the order of their class beginning with the Seniors. The new students are then assigned the remaining rooms, and in so far as possible, the type of room which they prefer. The University is responsible for the fall semester only for securing roommates for new student desiring double rooms. After a student has been a resident for one semester, the responsibility for securing and keeping a roommate is transferred to the student. If a student occupying a double room does not have a roommate by the date posted, approximately two weeks after the beginning of the semester, she will be required to pay double rent. The University is glad to co-operate in assisting the student to find a roommate.

When a room is once engaged by a student no change will be permitted except with the consent of the Director in the Business Division. Leaving one room and occupying another without permission is strictly against the rule and will render the offender liable to a charge for both rooms for the entire semester. No occupant is permitted to rent or sublet a room to another occupant. Rooms are rented for no shorter period than one semester. When a student leaves school before the end of the semester, the charge is \$1.00 a day unless the total charge on this basis is in excess of the room rent for the semester. All undergraduates who are not residents of Durham are required to live in the dormitories unless they are living with their parents or near-relatives. An undergraduate woman who is over twenty-one years of age and who wishes to live in the city may make special arrangements with the Dean. Provision is made for graduate students to live on the campus.

No visitors are permitted in any section of the dormitories which are occupied by women except by permission of the office of the Head of the House. Merchandising, solicitation, or advertising of any type is strictly forbidden within the dormitories.

BOARDING ACCOMMODATIONS

Trinity College, West Campus.—Beginning with the academic year 1930-31 the University opened its dining hall in the Union on the West Campus with accommodations sufficient to provide in a superior way for all resident men students. Charges for board are approximately \$30.00 per month.

The Union is the logical center of student activities for men, and it will be found desirable for male students to board in its supervised halls. In the Union are located the University Post Office, the University Store, the University Barber Shop, and all publications staff offices.

In addition to the Union dining halls, the Coffee Shop is operated for the convenience of students and visitors.

Woman's College, East Campus.—The dining halls of the Woman's College are situated in the Union and in Southgate. No resident woman is permitted to board elsewhere than at these halls. Board is \$125.00 per semester.

Because of the large number of those served in the dining halls, it is not possible to arrange special diets for individual students. Special diet for the sick is served in the Infirmary.

The Union includes a Faculty dining room, a lounge, and other rooms for various student activities.

LAWS REGARDING PAYMENTS

The Executive Committee of Duke University has enacted the following regulations which govern the payment of all fees due the University:

1. The President and the Treasurer of the University have no authority to suspend or in any way alter these regulations.
2. Matriculation and tuition fees are never refunded.
3. Any student who has failed to pay his bills on the dates advertised in the catalogue is denied the right to attend classes until his account is settled in full.
4. No student is considered by the Faculty as an applicant for graduation until he has settled with the Treasurer for all his indebtedness to the University.
5. No student who has not settled all his bills with the Treasurer of the University is allowed to stand the midyear or final examinations of the academic year.

When a student wishes his bills sent to his parents or guardian, the student or his parent or guardian must so notify the Treasurer of the University in writing in due time, but this in no way releases the student from liability to established penalties, if his bills are not paid on the dates advertised.

TRANSCRIPTS

Students desiring to transfer from Duke University to another institution are entitled to one transcript of their record. A charge of \$1.00 is made for each additional copy.

SCHOLARSHIPS, LOANS, AND EMPLOYMENT AID

Duke University annually awards available scholarships, administers loan funds, and supervises student employment through a committee of the Faculty for deserving undergraduates of Trinity College, the Woman's College, and the College of Engineering.

SCHOLARSHIPS

Scholarships intended to aid needy and deserving students have been established from time to time by persons deeply interested both in Duke University and in the members of its student body. Such scholarships are supported by the income from invested funds. All scholarship endowments are held in trust and are kept separate and distinct from other holdings of the University. All income is faithfully applied in accordance with the terms of the gift or bequest.

In addition, a limited number of scholarships, notably the honorary awards in recognition of scholastic merit and strength of character, are financed through current funds of the University.

Scholarships are awarded annually by a committee of the Faculty appointed by the President of the University. In some cases donors have specified certain limitations and conditions. These are faithfully followed, but in all cases final award is made by the Faculty committee.

As a general rule, scholarships cover tuition charges only, though in some instances provision has been made for larger amounts. Any prospective student may apply for a scholarship. No application, however, may be made formally by a prospective student until application for admission has been made, all necessary credentials have been presented, and notification of acceptance has been given. The number of scholarships available is small in comparison with the number of undergraduate students enrolled in the University, and as a result the committee in making the awards attempts in so far as possible to limit scholarship aid to cases where the need is imperative. Before applying for such aid, a student should first have exhausted all means of aid from parents, kinsfolk, interested friends, and commercial or civic agencies in his home locality.

All applications for scholarship aid should be made to the Scholarship Committee, Secretary's Office, Duke University.

The list of scholarships available for undergraduates appears in the General Catalogue of the University.

LOAN FUNDS

A number of loan funds have been established for the benefit of students of Duke University. The most important and largest of these is the Angier B. Duke Memorial Student Loan Fund, which is administered

through an advisory committee of officers of the University. The amount available to be loaned annually depends upon the income from investments and on the amount repaid on loans previously made to students.

The same committee of officers administers the other endowed loan funds of the University.

Although a considerable sum accrues annually for loans to students, it is not sufficient to provide for all calls for assistance. The committee in approving loans selects those students who, from the standpoint of character, scholastic attainment, personality, and degree of financial need, are most deserving of consideration.

The following regulations govern the making of all student loans:

1. No loans shall be made to a student who violates any of the regulations of the University or whose classwork is not satisfactory to the Faculty.

2. As a general policy a student is not potentially eligible for loan assistance until he has been in residence at least one semester and until those responsible for the administration of loan funds have had an opportunity to acquaint themselves with the worthiness and the need involved in any particular case.

3. Loans will be made only to students who are taking approved courses of study that lead to a degree, and all loans must be arranged for not later than one week after the beginning of a semester.

4. Every applicant for a loan must present with the application such security as the President of the University may approve, and no money shall be advanced before a note with approved security is in the hands of the Treasurer of the University.

5. No loan will be made to defray any other expenses than those incurred during the academic year for tuition, for matriculation, or for room-rent.

6. Interest at a rate of six per cent annually shall be charged for all loans of money, and the interest must be paid annually.

7. Applications for loans should be made to the Loan Committee, Secretary's Office, Duke University Station. A formal application for loan assistance may be made only on blanks furnished in the Secretary's Office at the time of registration. The granting or withholding of a loan is a matter entirely within the discretion of the Loan Committee. A student is expected to use all other possible means of securing financial assistance before applying for aid from the Loan Fund.

EMPLOYMENT

A number of students each year secure part-time employment on the University campus and in the city. Those in need of such employment may apply to the Secretary of the Committee on Student Aid, Secretary's Office, Duke University. No definite number of such places can be promised. Available places will be assigned in accordance with the merit and the need of the applicants.

HONORS AND PRIZES

To be eligible for Honors a student must earn during the year a credit of not less than thirty semester hours. Students in the Freshman, Sophomore, and Junior classes who earn an average of at least two and one-half quality points per semester hour are given Honors. All semester hours on which a student receives a grade are counted in the determination of Honors.

The degree of Bachelor of Arts or of Bachelor of Science with distinction is conferred upon the following rules:

Students who have completed a minimum of ninety semester hours in Duke University are eligible for general Honors at graduation. Those who earn an average of at least two and one-half quality points per semester hour are recommended for a degree *magna cum laude*. Those who earn an average of at least two and three-fourths quality points per semester hour are recommended for a degree *summa cum laude*. All semester hours taken in Duke University on which a student receives a grade are counted in the determination of Honors.

MEDALS AND PRIZES

The Wiley Gray Medal was established by the late Robert T. Gray, Esq., of Raleigh, North Carolina, to be awarded annually in memory of his brother. It is given for the graduating oration that shall be, in the opinion of a committee, the best, with respect to both declamation and composition.

The Debate Council authorizes the awarding of medals to members of the graduating class who have represented the University in at least two intercollegiate debates. The medals are given by the local chapter of the Tau Kappa Alpha Fraternity.

The Robert E. Lee Prize is the gift of the Reverend A. W. Plyler, of the Class of 1892, and Mrs. Plyler. The sum of \$50 is awarded annually at Commencement, preferably to that member of the Senior Class who in character and conduct, in scholarship and athletic achievement, in manly virtues and capacity for leadership, has most nearly realized the standard of the ideal student. The Dean of the College, the Graduate Manager of Athletics, and the President of the Student Council constitute a committee to draft and adopt regulations governing the award.

Alpha Kappa Psi Medallion. This prize is offered each year to the member of the graduating class who makes the highest record in economics and business administration during his career at the University.

The Willis Smith Prize. Mr. Willis Smith, a member of the Raleigh Bar and Chairman of the Law School Committee of the Board of Trustees of Duke University, awards each year to that member of the graduating class of the Law School who has maintained the highest scholastic average during the entire three years of Law School work, a prize consisting of a set of books selected personally by Mr. Smith each year for that purpose.

Julia Dale Prize in Mathematics. This is a prize of books given annually to the undergraduate who shows the greatest proficiency in the study of the calculus.

The Milmore Prize. consisting of one year's subscription to the *Electrical World*, is awarded each year to that student from North or South Carolina graduating in the Department of Electrical Engineering, who, in the opinion of the Faculty of that department and as shown by his grades, has made the most progress in electrical engineering during his last year in college.

Institute of the Aeronautical Sciences Awards. Two annual awards, each consisting of a two-year paid-up membership in the Institute and a certificate, presented, respectively, to the student presenting the best paper before a meeting of the Duke student branch of the Institute, and to that student of the Department of Mechanical Engineering making the highest scholastic record in aeronautical engineering courses.

The Pegram Chemistry Club Prize will be awarded in the spring of each year for scholarship in chemistry, physics, and mathematics. The prize is to consist of one-year junior membership in the American Chemical Society, and a one-year subscription to either the *Journal of the American Chemical Society*, or to *Industrial and Engineering Chemistry*. To qualify for this prize the student must (1) be enrolled as an undergraduate of Duke University and (2) be taking or have taken a fourth-year chemistry course. The winner of this prize is to be selected by a committee consisting of at least one Faculty member and at least two members of the Pegram Chemistry Club; the selection is to be based on the quality-point average for all courses taken in chemistry, physics, and mathematics. In case of a tie equal awards will be given.

The Sigma Xi Prize. The Society of the Sigma Xi, honorary scientific society, is devoted to the encouragement of scientific research, and seeks to stimulate those who show promise of accomplishment in scientific research. As an encouragement to younger men and women the Duke Chapter of Sigma Xi has established the following prizes to be awarded annually to students resident at Duke University: \$20.00 for an undergraduate project or paper, \$20.00 for a Master's thesis or its equivalent, and \$40.00 for a Ph.D. dissertation or its equivalent. Nominations, recommendations, copies of theses, reports or other material must be in the hands of the Secretary of the Chapter on or before May 5.

The Erasmus Club Prize in the Humanities. The Erasmus Club, founded in 1925, a group of Duke faculty members interested in research in language, literature, and the arts, seeks to stimulate interest and study in these fields. To encourage Duke students in this field, the Erasmus Club has established an annual prize, amounting to \$25.00, for the best original essay by an undergraduate which embodies the results of research, criticism, or evaluation in some subject in the humanities. Prospective competitors should consult some member of the Faculty, preferably their major professor. Essays must be typewritten and must be submitted to the president of the Club before the first of April. The Club reserves the right to withhold the prize in case there are no essays of acceptable quality.

STUDENT ORGANIZATIONS AND ACTIVITIES

The Men's Association of Duke University comprises all men students in Trinity College. It functions through its officers and a council to initiate policies and to oversee matters within the control of the student body. The council is composed of nine members: three executive officers, two representatives from the Senior Class, two from the Junior Class, and one from the Sophomore Class, and one from Southgate Dormitory.

The Women's Student Government Association is similar in character to the men's association. Its council is composed of the officers of the association and ex officio of the Y.W.C.A. president and an undergraduate representative.

The Young Men's Christian Association and the *Young Women's Christian Association* are branches of the national student Christian Associations. Each body aims to enrich not only the religious life of its members as individuals but also to promote religious group activity. Delegates are sent each year to summer conferences, state conventions, interstate conventions, and the state Bible and missionary institutes. Every year a series of special religious services is held. The Open Forum Bible Class is conducted under the auspices of the Church Board.

Other organizations and activities include the following:

Bench and Bar Association (Pre-Legal Undergraduates); Classical Club (Men); "Cogs" (College Organization for General Service); Debate Council (Men); Debating Club (Women); Duke University Church (Interdenominational); Duke University Pre-Medical Society (Undergraduate Medical Group); Hoof and Horn Club; Isotes (Independent Social Group—Women); Ministerial Fellowship; Modern Dance Group; Nereidian Club (Women); Poetry Club; Quadrangle Pictures; Student Forum Committee (Women); Student Religious Council; The Duke Players; The Explorers' Club;* Town Boys' Club; Town Girls' Club; Trident Club; Wartime Social Activities Board; Women's Athletic Association; and W. H. Pegram Chemistry Club.

HONORARY ORDERS AND FRATERNITIES (NATIONAL)

Chi Delta Phi (Literary—Women); Kappa Delta Pi (Education); Omicron Delta Kappa (Leadership—Men); Phi Beta Kappa (Scholarship); Phi Eta Sigma (Freshman Scholarship—Men); Pi Mu Epsilon (Mathematics); Tau Kappa Alpha (Forensic); Tau Psi Omega (French); Theta Alpha Phi (Dramatic).

HONORARY ORDERS AND FRATERNITIES (LOCAL)

Beta Omega Sigma (Sophomore—Men); Delta Phi Rho Alpha (Athletic—Women); 9019 (Scholarship—Men); Ivy (Freshman Scholarship—Women);* Red Friars (Leadership—Men); Sandals (Sophomore—

* Inactive for the duration of the war.

Women); Tombs (Athletic—Men); White Duchy (Leadership—Women).

ENGINEERING ORGANIZATIONS AND FRATERNITIES

American Institute of Electrical Engineers; American Society of Civil Engineers; American Society of Mechanical Engineers; Institute of the Aeronautical Sciences; Delta Epsilon Sigma (Duke Honorary Engineering Fraternity); Engineering Student Government Association; Engineering Town Boys' Club.

MUSICAL ORGANIZATIONS AND FRATERNITIES

Kappa Kappa Psi (National Band Fraternity);* The Duke University Instrumental Music Association, comprised of members from Duke University Band, Duke University Orchestra, and chamber music groups; The Men's Glee Club; The Women's Glee Club; The University Chapel Choir; The Woman's Music Study Club.

SOCIAL FRATERNITIES (NATIONAL)

(The Men's Panhellenic Council)

Alpha Tau Omega; Beta Theta Pi; Chi Phi; Delta Sigma Phi; Delta Tau Delta; Kappa Alpha; Kappa Sigma; Lambda Chi Alpha; Phi Delta Theta; Phi Kappa Psi; Phi Kappa Sigma; Pi Kappa Alpha; Pi Kappa Phi; Sigma Alpha Epsilon; Sigma Chi; Sigma Nu; Sigma Phi Epsilon; Zeta Beta Tau.

SOCIAL SORORITIES (NATIONAL)

(The Women's Panhellenic Council)

Alpha Chi Omega; Alpha Delta Pi; Alpha Phi; Alpha Epsilon Phi; Delta Delta Delta; Delta Gamma; Kappa Alpha Theta; Kappa Delta; Kappa Kappa Gamma; Phi Mu; Pi Beta Phi; Sigma Kappa; Zeta Tau Alpha.

STUDENT PUBLICATIONS

(Publications Council)

Archive (Monthly); *Chanticleer* (Annual); *Chronicle* (Semiweekly); *Duke 'n' Duchess* (Monthly Humor);* *DukeEngineer* (Bimonthly).

STUDENT ACTIVITIES OFFICE

The Student Activities Office was established for the purpose of assisting and co-ordinating the financial activities of the various student organizations in Trinity College.

The office offers to student organizations a banking service through the office of the University Treasurer.

There is no charge for this service.

The Student Activities Office, co-operating with the University Purchasing Department, also serves in the capacity of purchasing agent for its affiliated student organizations. Problems of a general nature having to do with extracurricular activities may be discussed with this office.

* Inactive for duration of the war.

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May, 1945

NUMBER 5

BULLETIN OF DUKE UNIVERSITY

The Divinity School



1944-1945

ANNOUNCEMENTS FOR 1945-1946

PUBLISHED BY THE UNIVERSITY

DURHAM, NORTH CAROLINA

ANNUAL BULLETINS

For GENERAL BULLETIN of Duke University, apply to *The Secretary*, Duke University, Durham, N. C.

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For BULLETIN OF THE COLLEGE OF ENGINEERING, apply to *The Secretary*, Duke University, Durham, N. C.

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BULLETIN
OF
DUKE UNIVERSITY



THE DIVINITY SCHOOL

1944-1945
ANNOUNCEMENTS FOR 1945-1946

DURHAM, NORTH CAROLINA
1945



THE CHAPEL, DUKE UNIVERSITY

CALENDAR

1945

- Sept. 21. Friday, 3:30 P.M.—First regular Faculty meeting.
- Sept. 22. Saturday, 9:00 A.M.-1:00 P.M.—Matriculation and registration of students.
- Sept. 24. Monday, 9:00 A.M.-1:00 P.M.—Matriculation and registration of students.
- Sept. 24. Monday, 2:00 P.M.-5:00 P.M.—Preliminary tests for first-year students.
- Sept. 25. Tuesday, 8:00 A.M.—Instruction begins.
- Sept. 25. Tuesday, 11:10 A.M.—Formal opening exercises.
- Nov. 22. Thursday—Thanksgiving Day: a holiday.
- Dec. 11. Tuesday—Duke University Day.
- Dec. 19. Wednesday, 1:00 P.M.—Christmas recess begins.

1946

- Jan. 3. Thursday, 1:00 P.M.—Instruction is resumed.
- Jan. 19. Saturday—Mid-year examinations begin.
- Jan. 30. Wednesday—Matriculation and registration for second semester.
- Jan. 31. Thursday—Second semester begins.
- April 16-17. Tuesday, Wednesday—English Bible examinations.
- May 13. Monday—Final examinations begin.
- May 25. Saturday—Commencement Day.

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Professor of Philosophy

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Alumni: Cannon, Hickman, Spence.

Chapel Services and Spiritual Life: Clark, Petry, Rudin, Stinespring.

Curriculum: Branscomb, Cannon, Ormond, Petry, Smith.

Extension: Hickman, Ormond, Spence.

Library: Petry, Cushman, Rowe.

Public Exercises: Smith, Branscomb, Cleland, Rowe.

Registration: Stinespring, Young.

Social: Spence, Branscomb.

Student Field Work: Ormond, Hart, Myers.

* On leave for service with the government.

† On leave with the Armed Services.

THE DIVINITY SCHOOL OF DUKE UNIVERSITY

GENERAL INFORMATION

HISTORICAL STATEMENT

The present Duke University has gradually been developed from a simple beginning in a local school established in 1838 in the northwestern part of Randolph County, North Carolina. This school was enlarged in 1840 and named Union Institute. In 1841 it was incorporated as Union Institute Academy by the legislature of North Carolina. Under the leadership of President Braxton Craven, the Academy grew into an institution chartered as Normal College in 1851. An amendment to the charter in November, 1852, authorized Normal College to grant degrees, and two students were graduated in 1853 with the degree of Bachelor of Arts.

In 1859 the charter of Normal College was amended to place the institution under the control of the Methodist Episcopal Church, South, and the name was changed to Trinity College. Dr. John Franklin Crowell became president of Trinity College in 1887. The most important achievement of his administration was the removal of the College to Durham, North Carolina, which was accomplished by September, 1892.

President Crowell resigned in 1894, and was succeeded by the Reverend John Carlisle Kilgo, D.D. During President Kilgo's administration the endowment of Trinity College was greatly increased, a library and other important buildings were erected, and notable progress was made by increasing the variety and improving the quality of the courses of instruction. A School of Law was established in 1904 by the gift of James B. and Benjamin N. Duke. In 1910 President Kilgo was succeeded by Dr. William Preston Few.

Trinity College experienced a great expansion in faculty, endowment, buildings, and equipment during President Few's administration. In December, 1924, James B. Duke established a \$40,000,000 trust fund for educational and charitable purposes. Trinity College accepted the terms of the Indenture of Trust on December 29, 1924, and on the following day the name of the institution was changed to Duke University. Mr. Duke's death in 1925 was followed by the announcement of munificent provisions in his will for the development of the University which bears his family name. Following the death of President Few in October, 1940, Dr. Robert Lee Flowers was elected as his successor on January 29, 1941.

THE DIVINITY SCHOOL

The Indenture signed by Mr. James B. Duke, which established the University, mentioned first among its objects the training of ministers of the Gospel. The Divinity School was, accordingly, the first of the graduate professional schools to be organized. Its work began with the year

1926-27, the formal opening exercises being held on November 9, 1926.

The Reverend Doctor Edmund Davison Soper was the first dean of the Divinity School. He was succeeded in 1928 by the Reverend Doctor Elbert Russell, and the latter in turn in 1941 by the Reverend Doctor Paul Neff Garber. In 1945 Dean Garber was elected to the episcopacy of the Methodist Church, and Dr. Harvie Branscomb assumed the duties of the dean's office.

THE PURPOSE OF THE DIVINITY SCHOOL

The primary purpose of the Divinity School is to provide training for individuals planning to enter the Christian ministry. This includes not only prospective ministers in local churches, but also those preparing themselves to be missionaries at home and abroad, directors of religious education, teachers of religion, and social workers. Vital to all of these forms of service is a full understanding of the beginnings, content, and history of the Christian faith and its special pertinence for the spiritual needs of the modern world. Studies of a broad and thorough character directed toward such an understanding constitute the center of the curriculum of the Divinity School and are regarded as the basic training for all prospective Christian workers. Specific training in the skills required of local ministers and of leaders in the work of religious education are also provided. As funds become available for the purpose and as needs appear, additional training in specialized skills and areas of knowledge will be added to the curriculum.

Though bound by ties of history and obligation to the Methodist Church, the Divinity School is multi-denominational in its interests and ecumenical in its outlook. Its faculty is limited to no one denomination, but draws upon the resources of them all. Students of the several denominations are admitted on the same basis. The Divinity School conceives its task to be one of broad service to the Church of Christ in all of its forms.

THE RELATION OF THE DIVINITY SCHOOL TO DUKE UNIVERSITY

The Divinity School is an integral unit of the University and shares fully in its activities, privileges and responsibilities. The Sunday services in the University Chapel give the Divinity School students an opportunity to hear each year a number of the leading preachers of the country. The University Library, conveniently located next to the Divinity School Building, makes easily accessible a rich collection of approximately three quarters of a million volumes. Selected courses in the Graduate School of Arts and Sciences and in the professional schools are open to Divinity School students without payment of additional fees. The general cultural and recreational resources of the University are available to them on the same basis as other students.

LIBRARY RESOURCES

The Divinity School has its own special library collection housed in the Divinity School Building. This collection, which contains materials

dealing with the subject of religion, numbers approximately thirty-five thousand volumes. It is rich in complete files of the more important religious journals and periodicals, in source materials, particularly for the study of American church history, missions and the history of religion, and in facsimiles of the more important manuscripts of the New Testament. One of the outstanding possessions of the Library is a magnificent Greek manuscript of the thirteenth or fourteenth century containing the entire text of the New Testament.

The general Library of the University is connected by a corridor with the Divinity School Building. It contains over seven hundred thousand volumes and receives the current issues of several thousand periodicals. The general Library contains also a catalogue of the library of the University of North Carolina located at Chapel Hill, twelve miles away, and a system of exchange operates between the two libraries so that books may be secured from that library also within a few hours.

RELIGIOUS AND SOCIAL LIFE

One of the most important aspects of a program of training for religious service is the development of a warm and discriminating spiritual experience. The center of the corporate life of the Divinity School is its own place of worship, York Chapel. Regular chapel services are held at which all students are expected to be present. Services are led by members of the faculty, by visiting ministers, and by members of the student body. Ordination and other special services are held upon occasion. On each Sunday morning services are held in the University Chapel.

The student body of the Divinity School is united by a strong sense of fellowship and common interest. Student committees organize and supervise social service projects and missions of preaching, jail visitation, and related enterprises. Opportunities for occasional preaching are always available.

PUBLIC LECTURES

In addition to the University lectures, the Divinity School brings to its own chapel each year a number of the leaders of American religious thought and life. The special speakers for 1944-45 included Dr. George A. Buttrick, President Henry Van Dusen, Dean Robert Wicks, Dr. Samuel M. Cavert, Dr. W. A. Stanbury, and Professor Nevin C. Harner. These lectures are regarded as an important part of the educational program of the year.

ENDOWED SCHOLARSHIP FUNDS

Certain special scholarship funds have been established, the income of which is available for students wishing to secure training in preparation for the Christian ministry. Mr. P. Huber Hanes of Winston-Salem, North Carolina, an alumnus of Duke University of the Class of 1900 and a member of the Board of Trustees, has established an annual scholarship yielding the sum of \$400. The scholarship bears the name of the donor.

In 1939, Mr. N. Edward Edgerton of Raleigh, North Carolina, an

alumnus of Duke University of the Class of 1921, a member of the Board of Trustees of the University and a member of the Committee on the Divinity School, established the N. Edward Edgerton Fund. The award is limited to students who are candidates for the B.D. degree.

In 1942 the Alumni Association of the Divinity School established a scholarship fund in honor of Elbert Russell, Dean Emeritus of the Divinity School and for a number of years Professor of Biblical Theology.

These scholarships are all awarded on the basis of service performed in a local church, thus providing for the student experience as well as financial aid.

In addition to these endowed scholarships there are available for students preparing for the Methodist ministry approximately sixty work scholarships provided by the Duke Endowment for aiding rural Methodist churches in North Carolina. Terms of these scholarships are given on page 13 of this catalogue. At the meeting of the Southeastern Jurisdictional Conference of the Methodist Church fifteen similar work scholarships were appropriated.

NAVAL THEOLOGICAL TRAINING PROGRAM

The training program of the United States Navy provides for the training of a limited number of pre-theological and theological students for eventual service as chaplains in the United States Naval Reserve. The Divinity School is cooperating with this program. Candidates for commission as chaplains are assigned to the School for study. A full summer term of fifteen weeks is provided in order that they may complete their theological training in two calendar years. Applicants for admission to this program must be accepted by their respective denominations and by the United States Navy as well as by the Divinity School.

COURSES OF STUDY OFFERED BY THE DIVINITY SCHOOL

The Divinity School offers at present two courses of study. The basic course is that which leads to the degree of Bachelor of Divinity. This is a three-year course and is recommended to all those preparing themselves for the work of the regular pastoral ministry.

Beginning with the year 1944-45 the Divinity School offered also a course of study leading to the degree of Master of Religious Education. This course is designed for individuals who wish to become directors or to take other specialized positions in the work of religious education. The course does not provide a general preparation for the work of the regular ministry and cannot serve as a substitute for it. No exchange of credits between the two courses is permitted, nor can courses taken be credited toward more than one degree. Only a limited number of candidates for the Master of Religious Education degree will be accepted annually.

The requirements for each of these degrees are stated on pages 14 through 17 in this catalogue.

**COURSES OF STUDY IN RELIGION OFFERED BY THE GRADUATE SCHOOL
OF ARTS AND SCIENCES**

Students who desire to pursue work in religion beyond that for the Bachelor of Divinity degree should register in the Graduate School of Arts and Sciences, through which the degrees of Master of Arts and Doctor of Philosophy may be obtained. This advanced work is administered through the Department of Religion of the Graduate School and is available to qualified persons of all denominations on an equal basis. Study and research may be pursued in three fields: (1) Biblical Studies; (2) Studies in Church History; and (3) Studies in Christian Thought. A list of courses approved by the Graduate Council for work in these fields, together with general requirements for admission to the Graduate School, may be found in the *Bulletin of the Graduate School*. This Bulletin is available on application to Dean Calvin B. Hoover, the Graduate School of Arts and Sciences, Duke University.

A limited number of University Scholarships and Fellowships, among which are two Gurney Harriss Kearns Fellowships of \$700 each, may be obtained by exceptionally qualified students. Applications for these must be submitted to Dean Hoover on University form blanks not later than March 15 of each year.

Inquiries concerning specific requirements of the Department of Religion in the Graduate School should be addressed to Professor H. Shelton Smith, Director of Graduate Studies in Religion.

**FACILITIES FOR ADVANCED STUDY IN THE AMERICAN SCHOOLS
OF ORIENTAL RESEARCH**

The Divinity School of Duke University is one of the supporting members of the American Schools of Oriental Research. Accordingly, students in the Divinity School have the privilege of attending the American School in Jerusalem or the one in Bagdad without charge for tuition. They may also compete for the financial aids which are offered annually by the Schools. These consist of four fellowships, the stipends depending upon available funds.

COSTS, RESIDENTIAL ARRANGEMENTS, AND STUDENT AID

FEES AND COSTS

The University tuition charge of \$100 per semester is remitted to students matriculated in the Divinity School.

Fees per semester:

Matriculation Fee	\$25.00	
Library Fee	5.00	
Athletic Fee	5.00	
Hospital Fee	5.00	
Damage Fee	1.00	
	\$41.00	\$ 41.00
Approximate cost of meals per semester		150.00
Room per semester		62.50
Total per semester		\$253.50

Each student is assessed, in the last semester before a degree is conferred, a Commencement Fee of \$3.00 and a Diploma Fee of \$5.00. The latter fee is refunded if the diploma is not awarded.

LATE REGISTRATION

Students matriculating in either semester at a date later than that prescribed in the catalogue shall pay to the Treasurer of the University a penalty of \$5.00.

DINING HALL

The dining halls in the University Union have accommodations for all resident Divinity School students. The meals furnished in the Union are supervised by trained dietitians. The price of board in the University dining halls is \$1.14 per day for three meals. A la carte service can be secured in the Union Coffee Shop.

A number of students are able to defray the cost of board by securing part-time employment in the University Union.

LIVING QUARTERS

Divinity School students are housed in the University dormitories along with other graduate and professional students. Application for room assignments should be addressed to the Director in the Business Division, Duke Station, Durham, N. C. The cost of a single room is \$75 per semester, of a double room \$62.50 per student per semester. A reservation fee of \$25 is required at the time a room is assigned. This reservation fee is deducted from the room charges at the time of registra-

tion. Students are urged to apply for rooms as early as possible. Delays, particularly if continued to the end of the summer, are likely to result in assignments to rooms less desirable than others and located at a distance from those occupied by other Divinity School students. Students occupying rooms in the dormitories who wish to retain their rooms for a following year must notify the Office of the Director in the Business Division by May 15.

All rooms in the dormitories are provided with heat, water, electric lights, and essential furniture. Each student furnishes his own blankets, sheets (mattresses 39" x 74"), pillows and pillow slips, towels, rugs and curtains.

The University has no apartments for married students. Students desiring such quarters should plan to arrive in Durham as early as possible before the opening of the fall semester in order to make their living arrangements. While the Divinity School Office will assist wherever it can in these matters, it cannot assume responsibility for making such arrangements.

STUDENT AID

Duke University remits its regular tuition charge to all students enrolled in the Divinity School. Scholarship aid, over and above this, is available only in the form of work scholarships. The funds for these scholarships come from the sources described on pages 9 and 10 of this catalogue. Those appointed to these scholarships agree to give ten weeks' service during the summer months to a church to which they are assigned. In return they receive their board and room for the period of their summer service and \$400. This latter sum is made available during the academic year preceding the summer work if desired. By special arrangement a student may be assigned to a church for five weeks' work with one-half the stated remuneration. The larger number, but not all, of these scholarships are limited to candidates for the Methodist ministry.

This plan of scholarship aid has several advantages. It provides an opportunity for earning a large part of the year's expenses, while at the same time assuring the student valuable experience in religious leadership.

Students who must have additional income over and above their summer's earnings may secure part-time employment during the academic year. They are strongly urged, however, to make their arrangements, if possible, so that no claims which will interfere with their academic work will be made upon their time and attention during the school year.

REQUIREMENTS FOR GRADUATION

REQUIREMENTS FOR ADMISSION

Candidates for admission must be graduates of colleges of recognized standing whose college record is such as to indicate their ability to carry on graduate professional studies. They will be admitted without examination on presentation of an official transcript of college and other academic credits which they may have secured. The application of students from foreign countries will be considered each on its own merits, the general principle being that a training equivalent to that of a baccalaureate degree from an accredited American college must have been secured. Women will be admitted on the same basis as men. Graduates of non-accredited colleges will be considered on their merits, but only those who give evidence of special promise will be admitted. In addition to an adequate academic preparation, applicants must satisfy the Faculty as to their Christian character and purpose. A formal application blank may be secured from the Dean of the Divinity School. This should be filled out and returned by all candidates for admission.

PRESEMINARY CURRICULUM

The Divinity School, in substantial agreement with the standards of the American Association of Theological Schools, recommends that prospective candidates for admission keep in mind the desirability of including the following in their undergraduate curriculum:

Two years' work in English literature and composition.

Two years in a foreign language.

One semester each in psychology, philosophy, and sociology (or economics).

One year in history.

An introduction to the natural sciences with adequate laboratory work (biology or one of the physical sciences).

Proficiency in public speaking.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF DIVINITY

The requirements for the degree of Bachelor of Divinity are the following:

Completion of ninety-two semester hours of course work, including the required courses listed on the following page.

Selection of a major field of study, in which fifteen semester hours of work shall be completed including the courses required of all students in that field.

Demonstration of a detailed knowledge of the contents of the narrative portions of the English Bible. An examination for this purpose is

given each spring. The dates for this examination for the academic year 1945-46 will be April 16-17, 1946.

The writing of an adequate thesis.

Students who show deficiencies in English composition will be required to take special training in addition to meeting the other requirements for the degree. The course leading to the degree of Bachelor of Divinity is planned to cover three years of normal academic work. In no case will this degree be conferred on a student until he has spent at least two semesters in residence in the Divinity School. This is defined as the completion of thirty semester hours of work.

REQUIRED COURSES FOR THE DEGREE OF BACHELOR OF DIVINITY

Old Testament

203-204. Introduction to the Old Testament 6 s.h.

New Testament

213-214. The Beginnings of Christianity 6 s.h.

Christian Doctrine

321. Introduction to Theology 3 s.h.

322. Introduction to Christian Theology 3 s.h.

Church History

233. Church History to the Reformation 3 s.h.

234. History of the Evangelical Movement 3 s.h.

Homiletics

241. Effective Speaking 2 s.h.

342. Theory and Practice of Preaching 3 s.h.

Practical Theology

352. Church Administration 3 s.h.

Religious Education

261. The Educational Work of the Church 3 s.h.

Psychology of Religion

371. Psychology of Religion 3 s.h.

Philosophy of Religion and Christian Ethics

291. Christian Ethics I 3 s.h.

History of Religion and Missions

281. Living Religions of the World 3 s.h.

282. Missions 3 s.h.

Social Ethics

*236. Social Ethics 3 s.h.

* Required of students who have not completed at least five semester hours of undergraduate sociology.

DISTRIBUTION OF REQUIRED COURSES BY YEARS

Fall Semester	Spring Semester
<i>Required in the First Year</i>	
Old Testament 203 or New Testament 213	Continuation of Biblical course begun in fall semester
Church History 233	Church History 234
History of Religion 281	Church Administration 352
	Homiletics 241
<i>Required in the Second Year</i>	
Christian Doctrine 321	Christian Doctrine 322
Religious Education 261	Missions 282
<i>Required in Either First or Second Year</i>	
Old Testament 203 and New Testament 213	Old Testament 204 and New Testament 214
Psychology of Religion 371	Homiletics 342
Christian Ethics 291	*Social Ethics 236

All required courses must be completed by the end of the second year.

THE SELECTION OF A MAJOR FIELD

Each student must select a department in which he elects to major and in which he will write his thesis. He must take fifteen semester hours in the department, including the general requirement in that department. He may also take his major in English Bible. To major in this field he must complete nine semester hours in the departments of Old and New Testament in addition to the required work in those departments. Of these nine semester hours, six must be taken in one of the two departments and three in the other. Credit for the thesis is not counted toward the completion of the major.

THESIS

The thesis, required of all students for graduation, shall be of such a character as to evidence special competence in a selected field of study and an ability to carry out and to state clearly independent investigations. The thesis shall be written in connection with the work of an advanced course in the field of the student's major interest, the particular course or courses available for this purpose being designated by the instructor in the field upon application of the student.

The thesis shall be from fifty to seventy-five pages in length. Two typewritten bound copies shall be presented to the instructor, one of which will be returned to the student after the thesis has been read and approved. The thesis, when approved, shall carry three semester hours credit over and above the credit for the course in connection with which it is written.

NORMAL SCHEDULE OF WORK

The normal schedule is fifteen semester hours per semester, except for the first year, in one semester of which the two-hour required course

* Required of students who have not completed at least five semester hours of undergraduate sociology.

in speech must be added. For students carrying the responsibilities of pastoral charges the normal load is twelve semester hours per semester. No students may increase their schedules beyond these limits except for one semester of the middle year when students with superior records may add three semester hours, and for the final semester before graduating when three semester hours may be added if this is necessary in order to complete the requirements for graduation.

SPECIAL REGULATIONS

Grades of incomplete received at the end of the fall semester must be removed by the completion of the work of the course not later than March 15. Grades of incomplete received at the end of the spring semester must be removed by October 1. If the work of the course is not completed by these dates, the grade shall be recorded as *F*.

No student shall be permitted to drop a course after the expiration of one-third the period of instruction of the course without incurring failure except for causes adjudged by the dean to be beyond the student's control.

REQUIREMENTS FOR THE DEGREE OF MASTER OF RELIGIOUS EDUCATION

The course of study leading to this degree is designed to provide training primarily for individuals desiring to become educational assistants in churches or to engage in other forms of Christian education.

Candidates for this degree must be graduates of accredited colleges with academic and personal records which afford promise of competence in this area of service. The course of study will be useful for individuals who have had one or more years of experience in religious education, and desire special training. Candidates for this degree will be limited in number, and individuals interested are urged to apply for admission well in advance of the opening of the academic year.

Certain prerequisite studies must have been taken by the candidate during the course of his academic training or must be secured, without credit toward the M.R.E. degree, after being admitted to the Divinity School. These are the following:

General Psychology	6 s.h.
Sociology	6 s.h.
Biblical Studies (including work in both the Old and the New Testaments)	6 s.h.

Thirty semester hours of academic work are required for graduation. Eighteen of the semester hours must be in the following fields:

Religious Education	6 s.h.
Psychology of Religion	3 s.h.
Christian Ethics or Social Ethics	3 s.h.
Biblical Studies	6 s.h.

The candidate must also engage in practice teaching in a church school or undertake some other approved project and must submit a written report covering this practical experience. This work will be under the supervision of the Department of Religious Education.

COURSES OF INSTRUCTION *

I. DIVISION OF BIBLICAL STUDIES

OLD TESTAMENT

201-202. **First Hebrew.**—The principles and structure of the Hebrew language with translation of selected Old Testament narratives. M.W.F. at 10:10. 6 s.h. Mr. STINESPRING

203-204. **Introduction to the Old Testament.**—The origin, literary forms, and contents of the books of the Old Testament in their geographical and historical setting. T.Th.S. at 9:10. 6 s.h. Mr. STINESPRING

205-206. **Elementary Arabic.**—No prerequisite, but one year of Hebrew recommended as preparation. Hours to be arranged. 6 s.h. Mr. STINESPRING

207-208. **Second Hebrew.**—Samuel or Kings the first semester and Isaiah the second. M.W.F. at 11:10. 6 s.h. Mr. STINESPRING

301. **The Religious Thought of Post-Exilic Judaism.**—A critical study of the religious and ethical ideas of the more important later writings of the Old Testament and the Apocrypha. Prerequisite: Old Testament 203-204. T.Th.S. at 10:10. 3 s.h. Mr. YOUNG

304. **Aramaic.**—A study of the Aramaic portions of the Old Testament, and selected passages from the Targums, Midrashes, and Talmuds. Hours to be arranged. 3 s.h. Mr. STINESPRING

305. **Third Hebrew.**—A study of late Hebrew prose, with readings from Chronicles, Ecclesiastes, and the Mishnah. Hours to be arranged. 3 s.h. [Not offered in 1945-46] Mr. STINESPRING

309. **History of the Ancient Near East.**—A specialized study of the civilizations of Egypt, Palestine, Syria, and Mesopotamia from the standpoint of Biblical archaeology. T.Th.S. at 12:10. 3 s.h. Mr. STINESPRING

310. **Old Testament Prophecy.**—A study of the social teachings of the Old Testament with special reference to the prophets of the eighth century B.C. T.Th.S. at 12:10. 3 s.h. Mr. STINESPRING

401-402. **Thesis Seminar.**—For students majoring in the Department of Old Testament. Hours to be arranged. DEPARTMENTAL STAFF

NEW TESTAMENT

211-212. **Hellenistic Greek.**—Designed for beginners to enable them to read the Greek New Testament. M.W.F. at 8:10. 6 s.h., provided the student takes six semester hours in New Testament Greek the following year. Mr. YOUNG

213-214. **The Beginnings of Christianity.**—A survey course dealing with the background, the beginnings, and the early history of Christianity. Special attention is given to the creation of the literature of the New Testament. M.W.F. at 9:10. 6 s.h. Mr. CLARK

* On recommendation of the professor in charge of the major field, courses offered in the Graduate School of Arts and Sciences other than those approved for credit in the Divinity School may be approved for credit in individual cases, provided no equivalent course is offered in the Divinity School; each case to be decided on its merits.

217. The New Testament in Greek.—Considerable portions of the Greek text of the New Testament will be read and the principles of Hellenistic Greek studied. Prerequisite: six semester hours' study of the Greek language. T.Th.S. at 9:10. 3 s.h. MR. CLARK

218. Galatians and I Corinthians.—A detailed study of two of Paul's major epistles. The course will be based on the Greek text. Prerequisite: New Testament 217 or its equivalent. T.Th.S. at 9:10. 3 s.h. MR. CLARK

219. Life of Paul.—A study of Paul's life on the basis of Acts and the letters of Paul, emphasizing the permanent values in Paul's work and his contribution to the world. M.W.F. at 2:00. 3 s.h. MR. MYERS

220. I Peter and the Gospel of John.—A detailed study of two of the non-Pauline writings of the New Testament. The course will be based on the Greek text. Prerequisite: New Testament 217 or its equivalent. T.Th.S. at 9:10. 3 s.h. MR. CLARK

[Not offered in 1945-46]

311. The Life and Teachings of Jesus.—Prerequisite: New Testament 213-214. M.W.F. at 12:10. 3 s.h. MR. BRANSCOMB

312. New Testament Theology.—The religious teachings of the books of the New Testament. Prerequisite: New Testament 213-214. M.W.F. at 9:10. 3 s.h. MR. YOUNG

313. Apostolic Fathers.—A study of the Christian development from Clement of Rome to Polycarp, with readings in the Greek text. M.W.F. at 2:00. 3 s.h. MR. CLARK

314. Early Christian Apologists.—A study of Christian apologetics in the second century, with readings in the Greek text. M.W. at 2:00. 3 s.h. MR. BRANSCOMB

316. Hellenistic Religions at the Beginning of the Christian Era.—Prerequisite: New Testament 213-214. M.W.F. at 10:10. 3 s.h. MR. CLARK

318. Text of New Testament.—A study of the materials for the reconstruction of the text, the principles of textual criticism, and the history of the text. Practical exercises in the use of manuscripts and facsimiles will be given. Prerequisite: New Testament 213-214 and a reading knowledge of Greek. T.Th.S. at 12:10. 3 s.h. MR. CLARK

[Not offered in 1945-46]

411-412. Thesis Seminar.—The materials and methods for the investigation of New Testament problems, with individual research done under the direction of the members of the Department. Admission by special permission. DEPARTMENTAL STAFF

315. Judaism at the Beginning of the Christian Era.—A study of Judaism from the time of Ben Sirach to the writing of the Mishna. Prerequisite: New Testament 213-214. M.W. at 2:00. 3 s.h. MR. CLARK

[Not offered in 1945-46]

320. Rabbinic Literature.—Critical readings in Rabbinic literature in the early centuries of the Christian era. Prerequisite: New Testament 213-214. M.W. at 2:00. 3 s.h. MR. CLARK

[Not offered in 1945-46]

II. DIVISION OF HISTORICAL STUDIES

HISTORY OF RELIGION AND MISSIONS

281. Living Religions of the World.—A survey of the religious systems of India, China, and Japan, followed by a study of Judaism, Mohammedanism, and Christianity, the object being to trace the historical development of each religion. T.Th.S. at 10:10. 3 s.h. MR. CANNON

282. Missions.—The history and philosophy of the missionary enterprise. T.Th.S. at 10:10. 3 s.h. MR. CANNON

283. The Religions of the Far East.—A study of the religious systems of China and Japan. T.Th.S. at 9:10. 3 s.h. MR. CANNON
[Not offered in 1945-46]

284. Comparative Religion I.—The ideas of God, sin, and salvation in the religions of the world. Prerequisite: 281. M.W.F. at 9:10. 3 s.h.
[Not offered in 1945-46] MR. CANNON

286. Comparative Religion II.—Ideas of the future life and ethical and social ideals in the religions of the world. Prerequisite: 281. M.W.F. at 9:10. 3 s.h. MR. CANNON

287. Mohammendanism.—The life of Mohammed and the religion of Islam, special attention being given to the Koran and its teachings. The aim is to interpret Mohammedanism as a force today. Prerequisite: 281. M.W.F. at 9:10. 3 s.h. MR. CANNON
[Not offered in 1945-46]

288. The Religions of India.—A study of present-day religious movements in India, with special reference to Hinduism. T.Th.S. at 9:10. 3 s.h. MR. CANNON
[Not offered in 1945-46]

289. Buddhism.—India at the rise of Buddhism. Life of the Buddha and the teachings of early Buddhism. Development into the Hinayana and Mahayana schools, its spread and present condition in southern and eastern Asia. Prerequisite: 281. M.W.F. at 9:10. 3 s.h. MR. CANNON

481-482. Thesis Seminar.—Problems of research in History of Religion and Missions. Open to advanced students on approval of the instructor. Prerequisite: six semester hours in the department. Hours to be arranged. MR. CANNON

CHURCH HISTORY

233. Church History to the Reformation.—A survey of the growth of the Christian Church from the Apostolic Age to the Reformation. M.W.F. at 11:10. 3 s.h. MR. PETRY

234. History of the Evangelical Movement.—Beginning with the Lutheran Reformation, this course traces the rise, growth, influence, and history to 1800 of the Calvinistic, Anglican, Reformed, Quaker, Baptist, and Methodist movements. M.W.F. at 11:10. 3 s.h. MR. PETRY

331. The Social Message of the Early and Medieval Church.—A study of the social teachings of the Christian Church prior to the Protestant Reformation, stressing the contributions of Christianity to social progress. Prerequisite: Church History 233-234. T.Th.S. at 10:10. 3 s.h. MR. PETRY

332. The Medieval Church.—Outstanding characteristics of the Medieval Church, emphasizing theory, polity, institutions, sacraments, and worship. Prerequisite: Church History 233-234. T.Th.S. at 10:10. 3 s.h. MR. PETRY

333. A History of Christian Renunciation in the Middle Ages.—A study of the renunciatory ideal and of spiritual practices with special reference to Benedictines, Franciscans, Lowland mystics, and leading seculars. Prerequisite: Church History 233-234. M.W.F. at 12:10. 3 s.h. Mr. PETRY
[Not offered in 1945-46]

334. Church Reformers and Christian Unity.—The work of such reformers as Marsilius of Padua, William of Ockham, John Gerson, Pierre d'Ailly and Nicholas of Cusa in relation to ecclesiastical schism and the search for Christian unity through representative councils. T.Th.S. at 11:10. 3 s.h. Mr. PETRY
[Not offered in 1945-46]

339. Methodism.—A study of the beginnings and growth of the Methodist societies in England, of early Methodism in America, and of the development of the several branches of the Methodist Church in America. Prerequisite: Church History 233-234. T.Th.S. at 9:10. 3 s.h. Mr. PETRY

432. Religious Leaders of the Early and Medieval Church.—Among those to be studied are Justin Martyr, Origen, Cyprian, Athanasius, Jerome, Augustine, Benedict of Nursia, Gregory VII, Abelard, Innocent III, Francis of Assisi, Thomas Aquinas, and John Wyclif. Prerequisite: Church History 233-234. M.W.F. at 12:10. 3 s.h. Mr. PETRY

437-438. Thesis Seminar.—Principles and practice of research.

DEPARTMENTAL STAFF

AMERICAN RELIGIOUS THOUGHT

391. Main Currents in American Religious Thought.—An introductory study of the main currents in American religious thought. T.Th.S. at 9:10. 3 s.h. Mr. SMITH
[Not offered in 1945-46]

392. Christian Thought in America Today.—A critical analysis of the leading tendencies in American religious thought since the First World War. T.Th.S. at 9:10. 3 s.h. Mr. SMITH

393. Religious Thought in Colonial America.—An exposition and evaluation of colonial movements in religious thought. M.W.F. at 11:10. 3 s.h. Mr. SMITH

394. Religious Thought in Modern America.—An exposition and evaluation of American religious thought since 1800. M.W.F. at 11:10. 3 s.h. Mr. SMITH

395. Social Thought in American Christianity.—A study of Christian social thought in America since 1850. 3 s.h. Mr. SMITH
[Not offered in 1945-46]

396. Modern American Christology.—An analysis of the historical development of modern American conceptions of the person and work of Christ. A seminar for advanced students. M. at 3:00. 2 s.h. Mr. SMITH

397. Seminar in American Religious Thought.—Selected problems in American theology. M. at 3:00. 2 s.h. Mr. SMITH

III. DIVISION OF THEOLOGICAL STUDIES

CHRISTIAN DOCTRINE

221. Platonism and Christianity.—An analysis of Plato's philosophy and a survey of its continuing influence in Hellenistic and Christian thought. Prerequisite: six semester hours in philosophy or its equivalent (Christian Doctrine 321). M.W.F. at 10:10. 3 s.h. Mr. CUSHMAN
[Not offered in 1945-46]

222. Theology and Philosophy in the Nineteenth Century.—A study of Protestant thought from Schleiermacher to Troeltsch, with special attention to the reciprocal relations between theology and metaphysics. Prerequisite: six semester hours in philosophy or its equivalent (Christian Doctrine 321). T.Th. at 2:00 and S. at 11:10. 3 s.h. MR. CUSHMAN

321. Introduction to Theology.—An examination of types of theological method and an indication of some of the results obtained through a resort to observation and experience in theological investigation. M.W.F. at 11:10. 3 s.h. MR. ROWE

322. Introduction to Christian Theology.—An introductory study of the principal doctrines of the Christian religion. M.W.F. at 11:10. 3 s.h. MR. CUSHMAN

324. The Content of Christian Doctrine.—A study of the systematic theologies of certain outstanding theologians with a view to enabling the student to work out a system of his own. Prerequisite: Christian Doctrine 321. M.W.F. at 10:10. 3 s.h. MR. ROWE

325. Soteriology.—A study of the Christian doctrine of salvation and a comparison of the various ways by which the saving power of God is understood to take effect in personal and social life. Prerequisite: Christian Doctrine 321. T.Th.S. at 12:10. 3 s.h. MR. ROWE

326. Eschatology.—A study of "the last things" in the light of the Christian hope for the individual and for society with special consideration of the Christian doctrine of immortality. Prerequisite: Christian Doctrine 321. T.Th.S. at 12:10. 3 s.h. MR. ROWE

327. Arminian Theology.—A study of Arminianism in the religious thought of England and America with special reference to the system of doctrine contained in the theological writings and doctrinal standards of Methodism. Prerequisite: Christian Doctrine 321. M.W.F. at 12:10. 3 s.h. MR. ROWE

328. Current Theology.—A survey of the fields of current theology with special attention given to the most significant and influential movements of reconstruction and reaction in contemporary Christianity. Prerequisite: Christian Doctrine 321. M.W.F. at 12:10. 3 s.h. MR. ROWE

329. The Person and Work of Christ.—An intensive examination of the classical types of christological and soteriological theories in the history of Christian thought, assessment of their presuppositions and constructive evaluation. Prerequisite: Christian Doctrine 321. T.Th.S. at 10:10. 3 s.h. MR. CUSHMAN

421. Philosophical Theology I.—An inquiry into the theory of religious knowledge, followed by a study of theism, human values, and the problem of evil. Prerequisite: Christian Doctrine 321-322. M.W.F. at 12:10. 3 s.h. MR. CUSHMAN

422. Philosophical Theology II.—An investigation of the relation of philosophy and Christianity, including a consideration of reason and revelation, the religious interpretation of history, the doctrine of salvation, and related problems. Prerequisite: Christian Doctrine 321-322. M.W.F. at 12:10. 3 s.h. MR. CUSHMAN

425. Seminar in Contemporary Theology.—Critical reading and discussion of the writings of six major contemporary theologians. Prerequisite: Christian Doctrine 321-322. T. at 3:30. 2 s.h. MR. ROWE, MR. CUSHMAN
[Not offered in 1945-46]

427-428. Thesis Seminar.—A seminar in thesis guidance. For students majoring in the Department of Christian Doctrine. Hours to be arranged.
DEPARTMENTAL STAFF

CHRISTIAN ETHICS AND PHILOSOPHY OF RELIGION

291. Christian Ethics I.—An historical and systematic study of Christian conceptions of the moral life. M.W.F. at 10:10. 3 s.h. MR. SMITH

292. Christian Ethics II.—A critical consideration of selected contemporary social problems from the viewpoint of the Christian ethic. T.Th.S. at 12:10. 3 s.h. MR. SMITH

[Not offered in 1945-46]

398. Seminar in Christian Ethics.—A critical study of selected problems. T. at 3:30. 2 s.h. MR. SMITH

[Not offered in 1945-46]

491-492. Thesis Seminar.—A seminar in thesis guidance for students majoring in the department. MR. SMITH

***203. The Philosophy of Conduct.**—A critical study of the fundamental problems of ethics. M.W.F. at 9:10. 3 s.h. MR. MORGAN

[Not offered in 1945-46]

***209. Philosophy of Religion I: Philosophical Introduction.**—Religion viewed from the standpoint of consideration of deity. T.Th. at 2:15-3:30. 3 s.h. MR. WIDGERY

***210. Philosophy of Religion II: Philosophical Introduction.**—Religion viewed from the standpoint of the nature of man, his origin and destiny. T.Th. at 2:15-3:30. 3 s.h. MR. WIDGERY

***226. The History of Ethics.**—Theories of morality from Socrates to the present time. M.W.F. at 9:10. 3 s.h. MR. MORGAN

[Not offered in 1945-46]

PSYCHOLOGY OF RELIGION

371. Psychology of Religion.—An analysis of the major factors in religious experience. T.Th.S. at 12:10. 3 s.h. MR. HICKMAN

372. Advanced Psychology of Religion.—An intensive study of the foundations and presuppositions of religious experience. T.Th.S. at 12:10. 3 s.h. MR. HICKMAN

373. Psychology of Preaching.—A psychological study of the preaching motive and of preaching relationships. T.Th.S. at 12:10. 3 s.h. MR. HICKMAN

[Not offered in 1945-46]

374. Pastoral Psychology.—Study of psychological problems and principles involved in pastoral work. T.Th.S. at 12:10. 3 s.h. MR. HICKMAN

[Not offered in 1945-46]

375. Genetic Psychology of Religion.—A study of the religious experience of childhood and youth. T.Th.S. at 9:10. 3 s.h. MR. HICKMAN

376. Studies in Mysticism.—An examination of the mystical aspect of religious experience. T.Th.S. at 9:10. 3 s.h. MR. HICKMAN

* Course offered in the Graduate School of Arts and Sciences which is credited toward the degree of Bachelor of Divinity.

- *206. **Social Psychology.**—Open to students in the Divinity School on consent of instructor. T.Th.S. at 11:30. 3 s.h. MR. KOCH
- *223. **Abnormal Psychology.**—Open to students in the Divinity School on consent of instructor. M.W.F. at 10:30. 3 s.h. MR. LUNDHOLM
- *228. **Psychology of Belief.**—Open to students in the Divinity School on consent of instructor. T.Th. at 10:30. 2 s.h. MR. LUNDHOLM
- †459. **Introduction to Psychiatry.**—2 s.h. MR. LYMAN
[Not offered in 1945-46]

IV. DIVISION OF PRACTICAL STUDIES

HOMILETICS

241. **Effective Speaking.**—The theory and practice of the fundamental principles of public speaking. Section I, M.W.F. at 2:00; Section II, T.Th. at 2:00 and S. at 11:10. 2 s.h. MR. RUDIN
246. **Oral Interpretation of Literature.**—A course for advanced students designed to develop ability in reading aloud, the Bible and other commonly used materials of public worship. Particular needs of individual students will also receive attention. M.W.F. at 12:10. 2 s.h. MR. RUDIN
342. **Theory and Practice of Preaching.**—Investigation of practical problems in preaching to determine causes of success and failure. Practice preaching. M.W.F. at 10:10. 3 s.h. MR. CLELAND
343. **Sermon Construction.**—Problems in sermon construction. Analysis of selected sermons. Practice preaching. M.W.F. at 9:10. 3 s.h. MR. CLELAND
347. **Materials of Preaching.**—A critical evaluation of selected portions of the Bible and of some non-Biblical materials for constructive modern preaching. T.Th. at 3:10-4:25. 3 s.h. MR. CLELAND
348. **History of Preaching.**—A study of significant periods and their representative preachers, to determine their value for modern preaching. Prerequisite: Hom. 342. T.Th. at 3:00. 3 s.h. MR. CLELAND

PRACTICAL THEOLOGY

253. **Field Work I.**—This course is required of all students who are engaged in any type of field work, except summer field work under the Duke Endowment plan. It is designed to help the students with their personal and parish problems and to develop techniques for successful service. T. 3:00-4:40. 1 s.h. MR. ORMOND
[Not offered in 1945-46]
254. **Field Work II.**—A required course for all students who work under the Duke Endowment plan. The purpose of the course is to emphasize the training values of field work. T. 3:00-4:40. 1 s.h. MR. ORMOND
352. **Church Administration.**—The minister's qualifications for church administration; the minister's service in managing the church organization and supervising the program. T.Th. S. at 12:10. 3 s.h. MR. ORMOND

* Course offered in the Graduate School of Arts and Sciences which is credited toward the degree of Bachelor of Divinity.

† Course offered in the School of Medicine which is credited toward the degree of Bachelor of Divinity.

353. The Rural Church.—A study of rural conditions with special emphasis upon the church as a community institution. M.W.F. at 12:10. 3 s.h.
Mr. ORMOND

354. Parish Evangelism.—A study of effective modern methods of evangelism in the local church. M.W.F. at 12:10. 3 s.h.
Mr. ORMOND
[Not offered in 1945-46]

355. Public Worship and Ordinances of the Church.—The principles and practice of public worship; attention to the use of the ritual in the church. M.W.F. at 10:10. 3 s.h.
Mr. ORMOND

356. The Urban Church.—A study of the function of the church in towns and cities with special attention to the church in industrial centers. M.W.F. at 9:10. 3 s.h.
Mr. ORMOND

***357. The Polity of the Methodist Church.**—The study will be based upon the *Methodist Discipline*. M. at 3:00. 1 s.h.
Mr. ORMOND

358. Church Music.—A study of hymnology, song leading, and problems of the modern church choir. T.Th.S. at 10:10. 3 s.h.
Mr. BARNES

457-458. Thesis Seminar.—A seminar in thesis guidance. For students majoring in the Department of Practical Theology. Hours to be arranged.
Mr. ORMOND

RELIGIOUS EDUCATION

261. The Educational Work of the Church.—A consideration of the total task of the church from an educational viewpoint. Attention will be given to such fundamental aspects as principles and objectives of the educative process for the several major age groups. Detailed consideration will be given to various methods and programs. T.Th.S. at 10:10. 3 s.h.
Mr. SPENCE

262. Methods and Materials of Religious Education.—A consideration of the principal administrative problems of the church school, of the various concepts of the curriculum, and an examination of existing curricula, their nature, use and value. T.Th.S. at 10:10. 3 s.h.
Mr. SPENCE

363. Worship and Drama.—Worship in its bearings upon the educational functions of the Christian religion. The use of drama in religious education with the creation of dramatic programs of worship and drama writing and production. M.W.F. at 9:10. 3 s.h.
Mr. SPENCE

365. History of Religious Education in Modern Times.—A critical study of the historical movements in religious education since the Reformation with special consideration of the American development. 3 s.h.
Mr. SPENCE
[Not offered in 1945-46]

366. The Educational and Spiritual Values of Great Literature.—A study of Biblical and other great literature from the standpoint of their teaching values; analysis of material with reference to needs, interests, and capacities of various age groups. Correlation of Biblical and extra-Biblical material with a view to its adaptability for teaching and preaching purposes. M.W.F. at 9:10. 3 s.h.
Mr. SPENCE

368. Theories of Religious Education.—A critical investigation of current theories of Religious Education. 3 s.h.
Mr. SPENCE
[Not offered in 1945-46]

* Courses on the polity of other churches will be arranged as needed.

SOCIAL ETHICS

236. Social Ethics.—A study of the sociological fundamentals underlying social ethics, including the controversy between materialistic and idealistic social thinkers, the nature of personalities and of social organizations, the nature of social values, types of social interaction and their effects upon general social values, underlying principles and facts of social change, and the bearings of all these upon certain social problems. T.Th.S. at 10:10. 3 s.h.

MR. HART

238. Religion and the World Crisis.—An inquiry into the bearings of religion upon past social evolution and upon the possible future development of civilization. T.Th.S. at 11:10. 3 s.h.

MR. HART

[Not offered in 1945-46]

299. Marriage and Family Counseling.—A survey of practical problems in the light of social, psychological, and spiritual fundamentals, for persons preparing for professional work. M.W. 3:00-4:15. 3 s.h.

MR. HART

[Not offered in 1945-46]

421-422. Thesis Seminar.—A seminar in thesis guidance for students majoring in sociology. Hours to be arranged.

MR. HART

***205. Social Pathology.**—A study of the causes, extent, significance, and constructive treatment of the principal forms of pathology in modern society; poverty, physical defectiveness, malnutrition, mental deficiency, mental disease, undirected leisure activities, and unstandardized commercial recreation, alcoholism, prostitution, vagrancy, and delinquency. T.Th.S. at 8:30. 3 s.h.

MR. JENSEN

***206. Criminology.**—A study of the original tendencies of man and the problem of socializing these tendencies; the relations of physical and mental defectiveness and untoward influences in the home and neighborhood to crime; the development of criminological theory and procedure, emphasizing penal and reform methods, and especially modern methods of social treatment and prevention of crime. T.Th.S. at 8:30. 3 s.h.

MR. JENSEN

***212. Child Welfare.**—A study of heredity and environment as factors in personality development; infant conservation; welfare responsibilities of the school, emphasizing the physical and mental well-being of the child, play, compulsory and industrial education; child labor, diagnosis and treatment of delinquency; care of the dependent and neglected child; child-caring agencies, public and private; and a community program of child welfare. 3 s.h.

[Not offered in 1945-46]

MR. JENSEN

***215. Rural Sociology.**—A study of the societies developed by people who settle the land and exploit it for a livelihood. The institutions peculiarly rural are the family farm, the peasant village, the ranch, and the plantation. In this course special attention is given to the plantation and the rural problems of the South. M.W.F. at 9:30. 3 s.h.

MR. THOMPSON

***216. Urban Sociology.**—This course studies the function of the city in the larger community which it nucleates both as market and as industrial center. More detailed attention, however, is given to the inner life and problems of the city. M.W.F. at 9:30. 3 s.h.

MR. THOMPSON

***217 Race and Culture.**—An analytical study of racial and cultural relations and problems of the Indian, the Negro, and other minority groups in historical and contemporary situations. M.W.F. at 10:30. 3 s.h.

MR. THOMPSON

* Course offered in the Graduate School of Arts and Sciences which is credited toward the degree of Bachelor of Divinity.

***319. Principles of Sociology.**—A critical study of sociological theory. The sociological theories of recent writers will be critically examined with a view to laying the foundation for a constructive theory of the social life in modern biology and psychology. T.Th.S. at 8:30. 3 s.h. MR. JENSEN
[Not offered in 1945-46]

***320. History of Sociological Theory.**—Lectures on the development of social thought from Aristotle to the present; the social philosophies of Plato, Aristotle, St. Augustine, Thomas Aquinas, Machiavelli, Bodin, Hobbes, Locke, Vico, Montesquieu, Rousseau, Condorcet, and the sociological systems of Comte, Spencer, Shaeffle, Lilienfeldt, Gumpłowicz, Ratzenhofer, and Ward, will, among others, be considered. Hours to be arranged. 3 s.h. MR. JENSEN

* Course offered in the Graduate School of Arts and Sciences which is credited toward the degree of Bachelor of Divinity.

Announcement



COURSES IN RELIGION

DUKE UNIVERSITY SUMMER SESSION

1945

DURHAM, NORTH CAROLINA

First Term: May 29 to July 9

Second Term: June 19 to July 30

Third Term: July 10 to August 20

Fourth Term: August 21 to September 8

ADMINISTRATIVE OFFICERS

ROBERT LEE FLOWERS, A.M., LL.D.
PRESIDENT OF DUKE UNIVERSITY

HOLLAND HOLTON, A.B., J.D.
DIRECTOR OF THE SUMMER SESSION AND CHAIRMAN OF THE
UNIVERSITY COMMITTEE ON THE SUMMER SESSION

ADVISORY COMMITTEE ON COURSES IN RELIGION

BENNETT HARVIE BRANSCOMB, A.B., M.A., (Oxon.),
Ph.D., Litt.D., *Chairman*
DEAN OF THE DIVINITY SCHOOL

HILRIE SHELTON SMITH, A.B., Ph.D., D.D., Litt.D.
DIRECTOR OF GRADUATE STUDIES IN RELIGION

HIRAM E. MYERS, A.B., S.T.B., S.T.M.
DIRECTOR OF UNDERGRADUATE STUDIES IN RELIGION

FACULTY

CANNON, JAMES, III; A.B., A.M., Th.B., Th.M., DD.; Ivey Professor of
the History of Religion and Missions.

CUSHMAN, ROBERT E.; A.B., B.D., Ph.D.; Associate Professor of Chris-
tian Doctrine.

GWYNN, PRICE HENDERSON, JR.; A.B., A.M., B.D., Ph.D.; Professor
of Education and Director of Student Guidance.

PETRY, RAY C.; A.B., A.M., Ph.D.; Associate Professor of Church History.

ROWE, GILBERT T.; A.B., S.T.D., D.D., Litt.D.; Professor of Systematic
Theology.

SMITH, H. SHELTON; A.B., Ph.D., D.D., Litt.D.; Professor of Christian
Ethics.

STINESPRING, WILLIAM F.; B.A., M.A., Ph.D.; Professor of Old
Testament.

SPENCE, HERSEY E.; A.B., A.M., B.D., D.D., Litt.D.; Professor of
Religious Education.

COURSES IN RELIGION

DUKE UNIVERSITY SUMMER SESSION

Courses in religion and related fields will be offered in the Duke University Summer Session of 1945. These courses are subject to all the regulations of the Duke University Summer Session as published in the Summer Session Bulletin. The undergraduate credits secured will count on the Bachelor of Arts degree. Graduate credits will count on the Bachelor of Divinity, Master of Religious Education, Master of Arts and Doctor of Philosophy degrees. These credits may, of course, be transferred to other colleges, universities, and theological schools in the same way that such transfer of credit is usually made.

CALENDAR AND REGISTRATION

The first term will open May 29 and close July 9. The second term will open June 19 and close July 30. The third term will open July 10 and close August 20. The fourth term will open August 21 and close September 8.

For the first term, Monday, May 28, is registration day. For the second term, Monday, June 19, is registration day. For the third term, Monday, July 9, is registration day. For the fourth term, Monday, August 20, is registration day.

FEES AND EXPENSES

Every student pays a registration fee of ten dollars for each three weeks, or twenty dollars for each term of six weeks. Tuition is four dollars for each semester hour. Ministers and theological students are exempt from tuition fees for as many as four terms of six weeks in the period of six years. After their fourth term they pay regular tuition charges.

ROOM AND BOARD

Most of the rooms in the dormitories are double rooms. The rent is \$12.50 per occupant for six weeks in the men's dormitories and \$13.50 per occupant in the women's dormitories. Single rooms are available at \$17.50 for the term of six weeks for men and \$18.50 for women. There is no dormitory for married men who wish their wives to come with them and no accommodations whatever for children on the campus. The Divinity School and Summer Session, however, are glad to assist students in locating accommodations off the campus. Occupants of the University rooms furnish their own bed linen, blankets, pillows, and towels.

Occupants of the University dormitories by boarding in the regular dining room of the University receive a discount of \$1.00 from the regular charge of \$45.00 for board of six weeks.

ADVANCED DEGREES

The degrees of Bachelor of Divinity and Master of Religious Education are offered in the Divinity School.

The degrees offered in the Graduate School of Arts and Sciences are Master of Arts and Doctor of Philosophy.

Graduate study in religion leading to the degrees of Master of Arts and Doctor of Philosophy may be pursued in three fields: (1) Biblical Studies; (2) Studies in Church History; and (3) Studies in Christian Theology and Ethics.

Candidates for advanced degrees must be graduates of colleges of recognized standing.

Upon request the Director of the Summer Session or the Dean of the Divinity School will furnish bulletins containing detailed description of the academic requirements for the degrees of Bachelor of Divinity, Master of Religious Education, Master of Arts and Doctor of Philosophy.

CREDITS

Courses numbered from 100-199 are for college juniors and seniors. Courses numbered from 200-299 are for college seniors, students in the Divinity School, and graduate students; courses numbered from 300 up are for Divinity School and graduate students. The maximum credit for a term of six weeks is six semester hours; for three weeks, three semester hours.

RELIGIOUS SERVICES

University religious services are held each Sunday morning at 11:00 o'clock, to which all students are invited. In the summer of 1944 the student choir, a voluntary organization, enrolled over two hundred students. A series of organ recitals is also given in the University Chapel.

COURSES OF INSTRUCTION *

(Note: In the description of courses the following abbreviations occur: *A* means that the course comes the first eighty-five minutes daily, beginning at 8:00; *B* means that the course comes at the eighty-five minute period beginning at 9:40; *C* means that the course comes at the eighty-five minute period beginning at 11:20.)

S167. Contemporary Religious Problems.—A course that deals with the main interests of life from the standpoint of their social and religious significance. *C. 3 s.h.* MR. SPENCE

[Offered during term, June 19-July 30]

S182. Living Religions of the World.—A survey of the religious systems of India, China, and Japan, followed by a study of Judaism, Mohammedanism, and Christianity, the object being to trace the historical development of each religion. For Juniors and Seniors. *B. 3 s.h.* (Old number 282.)

[Offered during term, June 19-July 30]

MR. CANNON

S291. Christian Ethics I.—An historical and systematic study of Christian conceptions of the moral life. *B. 3 s.h.* MR. SMITH

[Offered during term, May 29-July 9]

S394. Religious Thought in Modern America.—A survey of the main currents in later American religious and ethical thought, with special attention to liberal Protestantism. *A. 3 s.h.* MR. SMITH

[Offered during term, May 29-July 9]

S334. Church Reformers and Christian Unity.—The work of leading reformers in relation to ecclesiastical schism and the search for Christian unity from the 13th through the 15th century. *B. 3 s.h.* MR. PETRY

[Offered during term, May 29-July 9]

S339. Methodism.—A study of the beginnings and growth of the Methodist societies in England and of the development of the Methodist Church in America. *C. 3 s.h.* MR. PETRY

[Offered during term, May 29-July 9]

S296. Problems of Teaching Religion in the Secondary Schools.—*A. 3 s.h.* MR. GWYNN

[Offered during term, June 19-July 30]

S203. Introduction to the Old Testament.—The origin, literary forms, and contents of the books of the Old Testament in their geographical and historical setting. *C. 3 s.h.* MR. STINESPRING

[Offered during term, June 19-July 30]

S321. Introduction to Theology.—An examination of types of theological methods and an indication of some of the results obtained through a resort to observation and experience in theological investigation. *B. 3 s.h.*

[Offered in term, July 10-August 20]

MR. ROWE

S326. Eschatology.—A study of "the last things" in the light of the Christian hope for the individual and for society with special consideration of the Christian doctrine of immortality. *C. 3 s.h.* MR. ROWE

[Offered in term, July 10-August 20]

* The University reserves the right to withdraw any course in which fewer than ten enroll. Students interested should, therefore, apply promptly.

S310. Old Testament Prophecy.—A study of the social teachings of the Old Testament with special reference to the prophets of the eighth century B. C. A. 3 s.h. MR. STINESPRING
[Offered in term, July 10-August 20]

S222. Theology and Philosophy in the Nineteenth Century.—A and C. 3 s.h. MR. CUSHMAN
[Offered in the term, August 21-September 8]

RELATED COURSES

Education S206. Sociological Foundations of Secondary Education.—B. 3 s.h. MR. CHILDS
[Offered during term, June 19-July 30]

Education S215. Educational and Vocational Guidance.—B. 3 s.h. MR. GWYNN
[Offered during term, June 19-July 30]

Education S287. Problems of Mentally and Educationally Retarded Children.—A, B. 3 s.h. MR. WALLIN
[Offered during term, July 10-30]

Education S288. Problems of Mental Hygiene and Education.—A, B. 3 s.h. MR. WALLIN
[Offered during term, July 31-August 20]

Education S304. The School as an Institution.—3 s.h. MR. GOLDTHORPE
B [Offered during term, June 19-July 30]
A, C [Offered during term, July 31-August 20]

Education S305. The Nature, Function, and Reorganization of the Curriculum.—A. 3 s.h. MR. CARR
[Offered during term, June 19-June 30.]

Sociology S212. Child Welfare.—B. 3 s.h. MR. JENSEN
[Offered during term, June 19-July 30]

Sociology S216. Urban Sociology.—A. C. 3 s.h. MR. THOMPSON
[Offered during term, July 31-August 20]

Sociology S236. Social Ethics.—B. 3 s.h. MR. HART
[Offered during term, June 19-July 30]

Address application or requests for information to the DEAN OF THE DIVINITY SCHOOL, Duke University, Durham, North Carolina, or the DIRECTOR OF DUKE UNIVERSITY SUMMER SESSION, Duke University, Durham, North Carolina.

CANDIDATES FOR THE DEGREE OF BACHELOR OF DIVINITY JUNIOR CLASS

Adams, Gilreath Gilderoy, Jr. A.B., Duke University, 1945.	Charlotte, N. C.
Allen, Ray Maxwell A.B., Southwestern College, 1944.	Memphis, Tenn.
Andes, Mark Winston A.B., Elon College, 1944.	Harrisonburg, Va.
Barrett, Troy James A.B., Wofford College, 1944.	Fayetteville, N. C.
Blanton, William Webster A.B., Davidson College, 1944.	Troutman, N. C.
Branton, Theodore Ray A.B., Centenary College, 1945.	Vivian, La.
Burgin, William Grady A.B., Wofford College, 1942.	Marion, N. C.
Carter, John William A.B., High Point College, 1945.	Yanceyville, N. C.
Coffin, Wayne Wesley A.B., Southwestern University, 1944.	Miami, Tex.
Combs, William Price A.B., Duke University, 1944.	Greensboro, N. C.
Cooley, Arthur Paul A.B., Hendrix College, 1943.	Scranton, Ark.
Crowder, William Rankin A.B., Guilford College, 1944.	Greensboro, N. C.
Dean, Garland Carlton, Jr. A.B., Millsaps College, 1944.	Colfax, La.
Dunlap, Irwin Grant A.B., Albion College, 1944.	Algonac, Mich.
England, Perry William A.B., High Point College, 1945.*	Gastonia, N. C.
Farrell, Earl Thompson A.B., Elon College, 1944.	Pittsboro, N. C.
Groscup, Stacy LaGrande A.B., Morris Harvey College, 1945.	Hamlin, W. Va.
Harbin, Melton Edward A.B., High Point College, 1945.	Archdale, N. C.
Hartz, John Leslie B.S., Central Missouri State Teachers College, 1944.	St. Louis, Mo.
Harwell, Robert William A.B., University of North Carolina, 1942.	Mooresville, N. C.
Haskew, John Bishop, Jr. A.B., Athens College, 1944.	Lower Peach Tree, Ala.
Howard, Robert Crawford A.B., University of Alabama, 1944.	Mobile, Ala.
Hurley, John Bernard A.B., Catawba College, 1944.	Asheboro, N. C.
James, Howard Glenn A.B., Atlantic Christian College, 1944.	Winterville, N. C.

* Degree to be conferred.

- Johnson, Joseph Stephens *
A.B., High Point College, 1944. Lake Junaluska, N. C.
- Jordan, Linwood Ray
A.B., Wake Forest College, 1942. Wilmington, N. C.
- Kinlaw, Grover Cleveland
A.B., Wake Forest College, 1940. Lumberton, N. C.
- McCrimmon, John Holmes
A.B., Wake Forest College, 1941. Carthage, N. C.
- McDonald, Walter Neill
A.B., Duke University, 1944. Durham, N. C.
- Maides, John Thomas
A.B., High Point College, 1944. Maysville, N. C.
- Meacham, William Franklin
A.B., Elon College, 1944. Chapel Hill, N. C.
- Meredith, McLaurin Mayers
B.S., Southwestern University, 1945. Dallas, Tex.
- Miller, Clairmont Thaw, Jr.
A.B., Morris Harvey College, 1944. Sissonville, W. Va.
- Morton, Vernon Adams
A.B., High Point College, 1931. Jamestown, N. C.
- Parker, Wilson Roy
A.B., Wofford College, 1941. Cassatt, S. C.
- Reynolds, James William, Jr.
A.B., Randolph-Macon College, 1945. Hampton, Va.
- Rumbley, George McClellan
A.B., Union College, 1944. Brownsville, Ind.
- Scoggins, Eugene King
A.B., Wofford College, 1944. Olanta, S. C.
- Schrader, Albert John
A.B., Mount Union College, 1944. Pittsburgh, Pa.
- Seals, Daniel Hilton
A.B., University of North Carolina, 1945. Raeford, N. C.
- Short, Raymond Everett
A.B., Willamette University, 1944. Emmett, Ind.
- Smith, Edward Franklin
A.B., Duke University, 1945.* Fayetteville, N. C.
- Smith, James Bert
A.B., Birmingham-Southern College, 1944. Chipley, Fla.
- Spitzkeit, James Walton
A.B., Centenary College, 1944. Gulfport, Miss.
- Thomas, Kenneth Maxwell
A.B., Austin College, 1944. Dallas, Tex.
- Villines, Floyd Galloway, Jr.
A.B., University of Arkansas, 1941. Elm Springs, Ark.
- Way, Robert Bradford
A.B., University of South Carolina, 1945. Ridgeland, S. C.
- Wethington, Lewis Elbert
A.B., Wake Forest College, 1944. Durham, N. C.
- Winberry, Herman Stanford
A.B., Duke University, 1944. Mount Olive, N. C.
- Zinn, Warren Gamaliel
A.B., Alderson Broddus College, 1943. Philippi, W. Va.

* Degree to be conferred.

MIDDLE CLASS

Adamson, Malcolm Monroe A.B., Athens College, 1943.	Goodwater, Ala.
Atkeison, Gordon Rush A.B., Birmingham-Southern College, 1939.	Clover, Va.
Barnes, Edwin Edward A.B., Southwest Missouri State Teachers College, 1943.	Licking, Mo.
Bostick, Joseph Kent A.B., High Point College, 1944.	Raleigh, N. C.
Powers, Daniel P. Saylor A.B., Franklin and Marshall College, 1943.	Waynesboro, Pa.
Bull, Robert Jehu A.B., Randolph-Macon College, 1943.	Norfolk, Va.
Chrisman, Myron Wayne A.B., Phillips University.*	Lawton, Okla.
Cline, John Maxwell A.B., Duke University, 1943.	Durham, N. C.
Clouse, Walter Jacob A.B., Adrian College, 1944.	Aspinwall, Pa.
Cochran, James Edgar A.B., Wofford College, 1943.	Kannapolis, N. C.
Cofer, Gilbert Francis A.B., Emory and Henry College, 1943.	Alderson, W. Va.
Crouse, Kenneth Dewey A.B., High Point College, 1943.	Lexington, N. C.
Curtis, Myers Blondon A.B., Southwestern University, 1944.	Rosebud, Tex.
Dail, Francis Roderick B.S., East Tennessee State College, 1941.	Danville, Va.
Dalton, George Willie ● A.B., High Point College, 1943.	Lewisville, N. C.
Dennis, Arthur Williams A.B., West Virginia Wesleyan College, 1943.	Nassawadox, Va.
Dennis, Paul Martin A.B., Wake Forest College, 1943.	Mt. Gilead, N. C.
Durham, Donald William A.B., Union College, 1943.	Reidsville, N. C.
Edwards, John Paul A.B., Duke University, 1944.	Clinton, N. C.
Elrod, Elton Welborn A.B., Southwestern University, 1943.	Palestine, Tex.
Fowler, Francis Wiley B.S., Davidson College, 1944.	Charlotte, N. C.
Gitlin, Emmanuel Moiseyevich A.B., Texas Christian University, 1944.	Chicago, Ill.
Glass, Ernest Wilson A.B., Wake Forest College, 1944.	Sanford, N. C.
Harrell, Leighton Ernest, Jr. A.B., University of Maryland, 1943.	Hyattsville, Md.
Hughes, Miles Preston A.B., University of Alabama, 1943.	Gadsden, Ala.
Huston, Hollis A.B., Willamette University, 1944.	Salem, Ore.

* Degree to be conferred.

- Johnson, Carl Anderson
A.B., Wofford College, 1943.
- Johnson, Jesse Louis, Jr.
A.B., High Point College, 1943.
- Jones, Norwood Lee
A.B., High Point College, 1944.
- Lipe, Godfrey Frederick
A.B., Wake Forest College, 1943.
- McCleskey, Walter Scott
A.B., Emory University, 1942.
- Madren, Weldon Thomas
A.B., Elon College, 1943.
- Mims, Ulus Eugene
A.B., University of Alabama, 1944.
- Morgan, Colby Shannon
A.B., Elon College, 1944.
- Oliphint, Benjamin Ray
A.B., Southern Methodist University, 1944.
- Peery, John Franklin
A.B., Southern Methodist University, 1943.
- Perkins, Theodore Edison
B.S., Western Carolina Teachers College, 1939.
- Petteway, Warren Bernard
A.B., Wofford College, 1941.
- Risinger, Melvin Smith
A.B., West Virginia Wesleyan College, 1943.
- Rowland, Ray Marion
B.S., East Tennessee State College, 1943.
- Rutledge, Thomas Edgar, Jr.
A.B., Trinity University, 1943.
- Sampselle, William DeVries
A.B., University of Maryland, 1943.
- Smiley, Donald Gilbert
A.B., Fresno State College, 1943.
- Stanfield, Claude Edwin
A.B., Florida Southern College, 1943.
- Swink, Ray Franklin
A.B., High Point College, 1944.
- Townsend, Harold Lee
A.B., Wake Forest College, 1943.
- Wells, Robert Newton
A.B., Wofford College, 1943.
- White, Charles Denny
A.B., High Point College, 1939.
- Wynn, Coy Wilton
A.B., Louisiana State College, 1941;
M.A., Louisiana State University, 1942.
- Young, Alvin Clyde
A.B., Concord College, 1943.
- Elon College, N. C.
- Siler City, N. C.
- Clayton, N. C.
- Asheville, N. C.
- Waycross, Ga.
- Burlington, N. C.
- Newville, Ala.
- Eagle Springs, N. C.
- Shreveport, La.
- Fort Worth, Tex.
- Goldsboro, N. C.
- Kinston, N. C.
- Moundsville, W. Va.
- Jonesboro, Tenn.
- Childress, Tex.
- Mt. Rainier, Md.
- Fresno, Calif.
- Sarasota, Fla.
- Lexington, N. C.
- Fayetteville, N. C.
- Manning, S. C.
- Durham, N. C.
- Sicily Island, La.
- Buffalo, W. Va.

SENIOR CLASS

- Ausley, Paul Kenneth
B.S., Florida Southern College, 1942.
- Bailey, Ulysses Grant
A.B., Emory and Henry College, 1943.
- Beal, Paul R.
A.B., Morris Harvey College, 1942.
- Franklinville, N. C.
- McComas, W. Va.
- Glenville, W. Va.

Belcher, Arnold Dwane A.B., Emory and Henry College, 1942.	Hinton, W. Va.
Boone, Sidney Grant A.B., Duke University, 1934.	Nashville, N. C.
Booth, Robert Irvin A.B., University of Richmond, 1932.	Blairs, Va.
Brickhouse, Ernest Fielding A.B., Elon College, 1941.	Norfolk, Va.
Brinson, John Clinton A.B., Kentucky Wesleyan College, 1942.	Louisville, Ky.
Byrum, Roy Delbert A.B., High Point College, 1941.	Charlotte, N. C.
Conley, George Frederick A.B., Wofford College, 1938.	Charlotte, N. C.
Cooke, Jack Homer A.B., Lenoir-Rhyne College, 1942.	Maiden, N. C.
Dirks, Dwight Warren A.B., Dakota Wesleyan University, 1942.	Tyndall, S. D.
DuBose, Robert Newsom A.B., Wofford College, 1936.	Florence, S. C.
Ehlhardt, George Brinkmann A.B., John B. Stetson University, 1938.	St. Louis, Mo.
Everett, Caleb Roy, Jr. A.B., Randolph-Macon College, 1942.	Newsoms, Va.
Ford, Jesse Emerson, Jr. A.B., Wofford College, 1941.	Nashville, Tenn.
Fridley, Robert Daniel A.B., Randolph-Macon College, 1942.	Cambria, Va.
Fuqua, Robert Meek A.B., Duke University, 1943.	Bluefield, W. Va.
Glenn, Henry Clarence, III A.B., Duke University, 1938.	Durham, N. C.
Greene, Franklin William A.B., Baker University, 1942.	St. Louis, Mo.
Hamm, John Madison A.B., High Point College, 1942.	Tobaccoville, N. C.
Harbuck, George Welcome B.S., University of Houston, 1938.	Timpson, Tex.
Ingram, Osmond Kelly A.B., Birmingham-Southern College, 1940.	Wilmington, N. C.
Jackson, Lester Polk, Jr. A.B., Texas College of Mines, 1942.	El Paso, Tex.
Jolly, Joseph Ralph A.B., Birmingham-Southern College, 1942.	Tallassee, Ala.
Jones, Haniel A.B., Millsaps College, 1942.	Phenix City, Ala.
Jones, Murray Hughlon A.B., Teachers College of Kansas City, 1942.	Kansas City, Mo.
Jordan, John Sharpe A.B., Duke University, 1940.	West Jefferson, N. C.
Lowder, John Albert A.B., High Point College, 1942.	Mocksville, N. C.
McCarver, Clyde Gay A.B., University of Georgia, 1942.	Vidette, Ga.

McCoy, Charles Sherwood A.B., University of North Carolina, 1943.	Laurinburg, N. C.
McGinnis, James William A.B., Guilford College, 1942.	Salisbury, N. C.
Miller, Gilbert Shelly A.B., Lenoir-Rhyne College, 1940.	Greensboro, N. C.
Moore, Jack Warren A.B., Olivet College, 1934.	Raleigh, N. C.
Needham, George Harlan A.B., High Point College, 1941.	Randleman, N. C.
Oglesby, Glynn Aubrey A.B., Wofford College, 1943.	Selma, Ala.
Perry, Charles Streamburg A.B., Kentucky Wesleyan College, 1942.	Paintsville, Ky.
Pfisterer, Fred Russell A.B., Kentucky Wesleyan College, 1943.	Louisville, Ky.
Polk, Charles A.B., Wofford College, 1942.	Varnville, S. C.
Preston, Norman G., Jr. B.S., Louisiana State University, 1940.	Shreveport, La.
Purcell, Eugene George, Jr. A.B., Duke University, 1942.	Erwin, N. C.
Ray, Milton Undrel A.B., West Virginia Wesleyan College, 1942.	Cambridge, Md.
Regan, James Robert A.B., Duke University, 1928.	Mamers, N. C.
Ridenhour, Henry Isley A.B., High Point College, 1942	Seagrove, N. C.
Ritchie, Adam Greig A.B., Guilford College, 1944.	Chapel Hill, N. C.
Sales, Reames Hawthorne A.B., Hendrix College, 1942.	Forrest City, Ark.
Sturtevant, William Lyons A.B., Randolph-Macon College, 1939.	Portsmouth, Va.
Todd, Aubrey Clayton A.B., Elon College, 1936.	Sanford, N. C.
Tucker, Roger Wilkins A.B., High Point College, 1943.	Madison, N. C.
Turner, Archer Rudder A.B., Lynchburg College, 1942.	Lynchburg, Va.
Vereen, LaFon Carpenter B.S., Clemson College, 1941.	Latta, S. C.
Wagh, Ray Paschal A.B., Lenoir-Rhyne College, 1942.	Hiddenite, N. C.
Wellons, Albert Wilson A.B., Lenoir-Rhyne College, 1940.	Morganton, N. C.
Williams, Harley Morrison A.B., High Point College, 1942.	Salisbury, N. C.

CANDIDATES FOR THE DEGREE OF MASTER OF RELIGIOUS EDUCATION

Luke, Mary A.B., Morris Harvey College, 1944.	Mount Hope, W. Va.
Naylor, Mary Jean A.B., Blue Mountain College, 1944.	Leonardtown, Md.

Rash, Geraldine Madison
A.B., High Point College, 1942.

Union Grove, N. C.

SPECIAL STUDENT

Robinson, Dempsy Judson
A.B., Wake Forest College, 1925;
Th.M., Southern Baptist, 1932.

Rocky Mount, N. C.

STUDENTS IN THE SUMMER SESSION, 1944

Ausley, Paul Kenneth
B.S., Florida Southern College, 1942.

Franklinville, N. C.

Branton, Theodore Ray
A.B., Centenary College, 1945.

Jefferson, Tex.

Broadhead, Edward Hall
A.B., Denison University, 1931;
A.M., Duke University, 1933;
M.Mus., University of Michigan, 1939.

Durham, N. C.

Byrum, Roy Delbert
A.B., High Point College, 1941.

Charlotte, N. C.

Chrisman, Myron Wayne
A.B., Phillips University.*

Lawton, Okla.

Clouse, Walter Jacob
A.B., Adrian College, 1944.

Aspinwall, Pa.

Coffey, Charles Calvin
A.B., High Point College, 1944.

Hewlett, Va.

Cooke, Jack Homer
A.B., Lenoir-Rhyne College, 1942.

Maiden, N. C.

Curtis, Myers Blandon
A.B., Southwestern University, 1944.

Rosebud, Tex.

Dennis, Arthur Williams
A.B., West Virginia Wesleyan College, 1943.

Nassawadox, Va.

Dirks, Dwight Warren
A.B., Dakota Wesleyan University, 1942.

Tyndall, S. D.

Elrod, Elton Welborn
A.B., Southwestern University, 1943.

Palestine, Tex.

Fowler, Francis Wiley
B.S., Davidson College, 1944.

Charlotte, N. C.

Fuqua, Robert Meek
A.B., Duke University, 1943.

Bluefield, W. Va.

Gitlin, Emmanuel Moiseyevich
A.B., Texas Christian University, 1944.

Chicago, Ill.

Glass, Ernest Wilson
A.B., Wake Forest College, 1944.

Sanford, N. C.

Groscup, Stacy LeGrande
A.B., Morris Harvey College, 1945.

Hamlin, W. Va.

Hamm, John Madison
A.B., High Point College, 1942.

Tobaccoville, N. C.

Harbuck, George Welcome
B.S., University of Houston, 1938.

Timpson, Tex.

Harwell, Robert William
A.B., University of North Carolina, 1942.

Mooreville, N. C.

Hartz, John Leslie
B.S., Central Missouri State Teachers College, 1944.

St. Louis, Mo.

Kelley, Marvin Hess (Special student)
A.B., Hendrix College, 1937;
B.D., Duke University, 1940.

Holly Grove, Ark.

* Degree to be conferred.

Schuster, Nelson A.B., Phillips University, 1938.	Greensboro, N. C.
Smith, Edward Franklin A.B., Duke University, 1945.*	Fayetteville, N. C.
Taylor, William Welch A.B., Florida Southern College, 1928.	Leary, Ga.
Townsend, Harold Lee A.B., Wake Forest College, 1943.	Fayetteville, N. C.
Waugh, Ray Paschal A.B., Lenoir-Rhyne College, 1942.	Hiddenite, N. C.
Winberry, Herman Stanford A.B., Duke University, 1944.	Mount Olive, N. C.
Wood, Martha Arlevia A.B., Columbia College, 1943.	Salters, S. C.
Young, Mrs. Jean Steiner A.B., University of Wisconsin, 1939.	Lima, Ohio

CANDIDATES FOR THE DEGREES OF MASTER OF ARTS AND DOCTOR OF PHILOSOPHY IN RELIGION

(Registered in Graduate School of Arts and Sciences)

Brownlee, William Hugh A.B., Sterling College, 1939; Th.B., Pittsburgh-Xenia Theological Seminary, 1942.	Sylvia, Kan.
Carroll, Howard A.B., University of Richmond, 1938; B.D., Duke University, 1943.	Easton, Md.
DuBose, Samuel Wilds A.B., Davidson College, 1931; B.D., Union Theological Seminary, Richmond, 1935; A.M., Duke University, 1943.	Hillsboro, N. C.
Evans, Robert Weldon A.B., Hendrix College, 1941; B.D., Duke University, 1944.	Batesville, Ark.
Lewis, Frank Bell A.B., 1932, A.M., 1933, Washington & Lee University; B.D., 1936, Th.M., 1937, Union Theological Seminary.	Maxwelton, W. Va.
Moore, Benjamin Franklin A.B., University of Georgia, 1937; B.D., Columbia Theological Seminary, 1942.	Athens, Ga.
McClain, Howard G. (Minor) A.B., Vanderbilt University, 1939; B.D., Southern Baptist Theological Seminary, 1943.	Sherman, Tex.
Rhodes, Daniel Durham A.B., Davidson College, 1938; B.D., Louisville Presbyterian Theological Seminary, 1944.	Rocky Point, N. C.
Rudisill, Dorus Paul A.B., Lenoir-Rhyne College, 1922; A.M., University of South Carolina, 1925; B.D., Southern Seminary, 1925; S.T.M., Hartford Theological Seminary, 1932.	Chapel Hill, N. C.
Schafer, Thomas Anton A.B., Maryville College, 1940; B.D., Presbyterian Theological Seminary, 1943.	E. Liverpool, Ohio

* Degree to be conferred.

- Starr, Homer Pilgrim
A.B., University of the South, 1934;
B.D., Virginia Theological Seminary, 1938. Burlington, N. C.
- Truscott, Ethel Irene
A.B., Coker College, 1943. Lomas de Zamora, Argentina
- Woodbridge, Charles Jahleel
A.B., Princeton University, 1923;
A.M., Princeton University, 1927;
Th.B., Princeton Theological Seminary, 1927. Salisbury, N. C.
- Young, Franklin Woodrow
A.B., Dartmouth College, 1937;
B.D., Crozer Theological Seminary, 1942. Columbus, Ohio

SUMMER SESSION, 1944

- Brownlee, William Hugh
A.B., Sterling College, 1939;
Th.B., Pittsburgh-Xenia Theological Seminary, 1942. Sylvia, Kan.
- Cooksey, Stella Marie (Minor)
B.S., Morris Harvey College, 1941. Charleston, W. Va.
- Hamlin, Griffith Askew
A.B., Atlantic Christian College, 1939;
M.R.E., College of the Bible, 1942. Richlands, N. C.
- Hiers, Mrs. Marion Manning
B.L., Flora Macdonald College, 1921;
B.A., Flora Macdonald College, 1943. Orangeburg, S. C.
- Spears, Julius Hubert
A.B., Mercer University, 1928;
Th.M., Southern Baptist Theological Seminary, 1931. Chatham, Va.
- Storch, Margaret Rees (Minor)
A.B., Cedar Crest College, 1940. Allentown, Pa.
- Thomas, Cecil Kermit
A.B., Manhattan Bible College, Kansas State College, 1932;
A.M., Phillips University, 1937;
B.D., Phillips University, 1938. Kimberlin Heights, Tenn.

DEGREES CONFERRED IN 1944

BACHELOR OF DIVINITY

Albright, William Edward, Jr.	Knight, James Allen
Bame, Robert L.	McCoy, Lewistine Martin
Beard, John S.	McDonald, Thaddeus LeVerne, Jr
Bell, Roy Edison	McGuire, Douglas Lyons
Boggs, Charles Marvin	Mackay, Donald Mason
Carlton, Arthur McCoy	Mitchell, Charles Maness
Carter, James Edwin	Musser, Benjamin F.
Chaffin, James Claude	Pannill, Harry Burnell
Conyers, David P.	Phifer, Ernest Carl
Elliott, Mahlon Hamlett	Powell, John James
Evans, Robert Weldon	Rainwater, Roland William, Jr.
Fleming, Murry Douglas	Register, Kenneth Davis
Hendrix, Major Clyde	Rock, William Alfred, Jr.
Jones, George Wesley	Stevenson, Linwood Jennings
Kennedy, Arthur C., Jr.	Ware, Lee Wilson

MASTER OF ARTS IN RELIGION

Coble, Joseph Fillmore

DOCTOR OF PHILOSOPHY IN RELIGION

Ramsay, Charles McKay

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Arkansas	2	Number of States, 24.	
Florida	2		

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Guilford College	3	Louisiana College	1
University of Alabama	3	Louisiana State University	1
University of North Carolina ...	3	Lynchburg College	1
West Virginia Wesleyan College	3	Mount Union	1
Athens College	2	Olivet College	1
Centenary College	2	Phillips University	1
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Florida Southern College	2	John B. Stetson University	1
Hendrix College	2	Texas Christian University	1
Kentucky Wesleyan College	2	Texas College of Mines	1
Millsaps College	2	Teachers College of Kansas City	1
Southern Methodist University ..	2	Trinity University	1
Southwestern College	2	University of Arkansas	1
Union College	2	University of Georgia	1
University of Maryland	2	University of Houston	1
Willamette University	2	University of Richmond	1
Adrian College	1	University of South Carolina ...	1
Albion College	1	Western Carolina Teachers	
Alderson Broddus College	1	College	1
Atlantic Christian College	1	Number of Institutions, 61.	
Catawba College	1		

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DISTRIBUTION BY DENOMINATIONS

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Presbyterian	3	Russian Baptist	1
Disciples of Christ	2	Number of Denominations, 9.	

VOLUME 17

May, 1945

NUMBER 5-A

BULLETIN OF DUKE UNIVERSITY

*The Graduate School of
Arts and Sciences*



1944-1945

ANNOUNCEMENTS FOR 1945-1946

PUBLISHED BY THE UNIVERSITY
DURHAM, NORTH CAROLINA

ANNUAL BULLETINS

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For BULLETIN OF THE SUMMER SESSION, apply to *The Director of the Summer Session*, Duke University, Durham, N. C.

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OF
DUKE UNIVERSITY

THE GRADUATE SCHOOL
OF ARTS AND SCIENCES



1944-1945
ANNOUNCEMENTS FOR 1945-1946

DURHAM, NORTH CAROLINA
1945

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UNIVERSITY CALENDER

1945

- June 19. Tuesday, 9:00 A.M.—Registration of students for Summer Session, first term.
- June 20. Wednesday, 8:00 A.M.—Instruction begins for Summer Session, first term.
- July 4. Wednesday—Independence Day: a holiday.
- July 28, 30. Saturday, Monday—Final examinations for Summer Session, first term.
- July 30. Monday, 2:00 P.M.—Registration of students for Summer Session, second term.
- July 31. Tuesday, 8:00 A.M.—Instruction begins for Summer Session, second term.
- Sept. 7-8. Friday, Saturday—Final examinations for Summer Session, second term.
- Sept. 20. Thursday, 12:15 P.M.—Formal opening of the University.
- Sept. 20-22. Thursday, 9:15 A.M.-12:45 P.M., 2:30 P.M.-4:30 P.M.; Friday, 9:15 A.M.-12:45 P.M., 2:30 P.M.-4:30 P.M.; Saturday, 9:15 A.M.-12:45 P.M.—Registration of graduate students for first semester.
- Sept. 24. Monday—Instruction for graduate students begins.
- Oct. 15. Monday—Last day for submitting thesis subjects for the degree of Doctor of Philosophy.
- Nov. 5-10. French examinations for candidates for graduate degrees. Candidates register in the Graduate Office for these examinations before October 25.
- Nov. 12-17. German examinations for candidates for graduate degrees. Candidates register in the Graduate Office for these examinations before November 1.
- Nov. 15. Thursday—Last day for submitting thesis subjects for the degrees of Master of Arts and Master of Education.
- Nov. 22. Thursday—Thanksgiving Day: a holiday.
- Dec. 11. Tuesday—Duke University Day.
- Dec. 19. Wednesday, 1:00 P.M.—Christmas recess begins.

1946

- Jan. 3. Thursday, 1:00 P.M.—Instruction is resumed.
- Jan. 9-18. Reading period.
- Jan. 17-18. Thursday, Friday, 9:15 A.M.-12:45 P.M.; 2:30 P.M.-4:30 P.M.—Registration of graduate students for second semester.
- Jan. 19. Saturday—Mid-year examinations begin.
- Jan. 29. Tuesday—Mid-year examinations end.

Jan. 31.	Thursday—Second semester begins.
March 1.	Friday—Last day for applying for University fellowships, graduate assistantships, and graduate scholarships.
March 4-9.	French examinations for candidates for graduate degrees. Candidates register in the Graduate Office for these examinations before February 27.
March 11-16.	German examinations for candidates for graduate degrees. Candidates register in the Graduate Office for these examinations before March 5.
April 1.	Monday—Students who expect to receive advanced degrees in May should notify the Graduate Office to that effect.
April 15.	Monday—Last day for submitting theses for degree of Doctor of Philosophy.
April 22-May 4.	Reading period. Instruction is resumed May 6, Monday, 8:30 A.M.
May 1.	Wednesday—Last day for submitting theses for degrees of Master of Arts and Master of Education.
May 13.	Monday—Final examinations, second semester, begin.
May 23.	Thursday—Final examinations, second semester, end.
May 25.	Saturday—Commencement Day.

A number of the science courses are offered on special dates agreeing with the calendar of Trinity College rather than with that of the Graduate School. Applicants for admission to science courses should write the Director of Graduate Studies in the department offering the courses and inquire as to the date of beginning.

1945

JANUARY	APRIL	JULY	OCTOBER
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1946

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OFFICERS OF ADMINISTRATION

FLOWERS, ROBERT LEE, A.M., LL.D. <i>President of the University</i>	West Campus
WANNAMAKER, WILLIAM HANE, A.B., A.M., Litt.D. <i>Vice-President and Dean of the University</i>	West Campus
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MARKHAM, CHARLES BLACKWELL, A.B., A.M. <i>Treasurer</i>	204 Dillard Street
JORDAN, CHARLES EDWARD, A.B. <i>Secretary</i>	813 Vickers Avenue
BROWER, ALFRED SMITH, A.B. <i>Administrative Assistant</i>	518 Morehead Avenue
BREEDLOVE, JOSEPH PENN, A.B., A.M. <i>Acting Librarian</i>	407 Watts Street
HOOVER, CALVIN BRYCE, A.B., Ph.D., Litt.D. <i>Dean of the Graduate School of Arts and Sciences</i>	1702 Duke University Road
ROBERT, JOSEPH CLARKE, A.B., A.M., Ph.D. <i>Assistant Dean of the Graduate School</i>	1102 B Street

EXECUTIVE COMMITTEE OF THE GRADUATE SCHOOL COUNCIL

CALVIN BRYCE HOOVER, A.B., Ph.D., Litt.D. <i>Dean of the Graduate School of Arts and Sciences, ex officio</i>
BENNETT HARVIE BRANSCOMB, A.B., B.A., M.A., Ph.D., Litt.D.
WILLIAM ARTHUR BROWNELL, A.B., A.M., Ph.D., LL.D.
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GEORGE THOMAS HARGITT, Ph.B., A.M., Ph.D., Sc.D.
ROBERT S. ROGERS, A.B., A.M., Ph.D., F.A.A.R.
JOSEPH JOHN SPENGLER, A.B., M.A., Ph.D.

* Died, July 17, 1944.

INSTRUCTIONAL STAFF

MEMBERS OF THE GRADUATE SCHOOL COUNCIL

The date denotes the first year of service at Duke University.

- *ADAMS, DONALD KEITH, (1931) A.B., M.A., Ph.D.
Associate Professor of Psychology Cornwallis Road
- BAUM, PAULL FRANKLIN, (1922) A.B., A.M., Ph.D.
Professor of English 112 Pinecrest Road
- BIGELOW, LUCIUS AURELIUS, (1929) S.B., Ph.D.
Professor of Chemistry 131 Pinecrest Road
- BLOMQUIST, HUGO LEANDER, (1920) B.S., Ph.D.
Professor of Botany 922 Demerius Street
- BRANSCOMB, BENNETT HARVIE, (1925) A.B., B.A., M.A., Ph.D., Litt.D.
Professor of New Testament Language and Literature.
 Chelsea Circle, Hope Valley
- BROWNELL, WILLIAM ARTHUR, (1930) A.B., A.M., Ph.D., LL.D.
Professor of Educational Psychology Hope Valley
- CARLITZ, LEONARD, (1932) A.B., A.M., Ph.D.
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- †COLE, ROBERT TAYLOR, (1935) A.B., A.M., Ph.D.
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* Absent on leave, Government Service, 1944-45.

† Absent on leave, Government Service, first semester, 1944-45.

‡ Retired, June 30, 1944.

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Professor of English 121 Pinecrest Road
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- KORSTIAN, CLARENCE FERDINAND, (1930) B.S.F., M.F., M.A., Ph.D.
Professor of Silviculture 1718 Duke University Road
- KRAMER, PAUL JACKSON, (1931) A.B., M.Sc., Ph.D.
Associate Professor of Botany 2251 Cranford Road
- LANNING, JOHN TATE, (1927) A.B., A.M., Ph.D.
Professor of History Hope Valley
- LAPRADE, WILLIAM THOMAS, (1909) A.B., Ph.D.
Professor of History 1108 Monmouth Avenue
- LESTER, RICHARD ALLEN, (1940) Ph.B., M.A., Ph.D.
Associate Professor of Economics 2020 Wilson Street
- LONDON, FRITZ, (1938) Ph.D., Docteur ès Sciences of the University of Paris
Professor of Theoretical Chemistry 1508 Oakland Avenue
- LUNDEBERG, OLAV K., (1931) A.B., A.M., Ph.D.
Professor of Romance Languages 127 Pinecrest Road

* On active duty, U. S. Army.

† Resigned, August 31, 1944.

LUNDHOLM, HELGE, (1930) Fil. Kand., Fil. Lic., Ph.D. <i>Professor of Psychology</i>	803 Second Street
*MORGAN, GEORGE ALLEN, JR., (1936) Ph.B., A.M., Ph.D. <i>Associate Professor of Philosophy</i>	Duke University
NELSON, ERNEST WILLIAM, (1926) A.B., A.M., Ph.D. <i>Associate Professor of History</i>	909 North Gregson Street
NIELSEN, WALTER MCKINLEY, (1925) B.S. in E.E., Ph.D. <i>Professor of Physics</i>	139 Pinecrest Road
†NORDHEIM, LOTHAR WOLFGANG, (1937) Ph.D. <i>Professor of Physics</i>	2255 Cranford Road
PEARSE, ARTHUR SPERRY, (1926) B.S., A.M., Ph.D., LL.D. <i>Professor of Zoology</i>	Chelsea Circle, Hope Valley
‡PEPPLER, CHARLES WILLIAM, (1912) A.B., Ph.D. <i>Professor of Greek</i>	406 Buchanan Road
PERLZWEIG, WILLIAM ALEXANDER, (1929) B.S., A.M., Ph.D. <i>Professor of Biochemistry</i>	Hope Valley
PROCTOR, ARTHUR MARCUS, (1923) A.B., A.M., Ph.D. <i>Professor of Education</i>	2106 Myrtle Drive
RANKIN, ROBERT STANLEY, (1927) A.B., A.M., Ph.D. <i>Professor of Political Science</i>	1107 Knox Street
RATCHFORD, BENJAMIN ULYSSES, (1928) B.S., A.M., Ph.D. <i>Professor of Economics</i>	133 Pinecrest Road
RHINE, JOSEPH BANKS, (1927) B.S., M.S., Ph.D. <i>Professor of Psychology</i>	908 West Club Boulevard
**ROBERTS, JOHN H., (1931) A.B., Ph.D. <i>Associate Professor of Mathematics</i>	2813 Legion Avenue
ROGERS, ROBERT S., (1937) A.B., A.M., Ph.D., F.A.A.R. <i>Professor of Latin</i>	148 Pinecrest Road
SCATES, DOUGLAS EDGAR, (1939) A.B., Ph.D. <i>Associate Professor of Education</i>	2247 Cranford Road
†SHIPMAN, GEORGE A., (1938) A.B., Ph.D. <i>Associate Professor of Political Science</i>	139 Pinecrest Road
SMITH, HILRIE SHELTON, (1931) A.B., Ph.D., D.D., Litt.D. <i>Professor of Christian Ethics</i>	1523 Hermitage Court
SPENGLER, JOSEPH JOHN, (1934) A.B., M.A., Ph.D. <i>Professor of Economics</i>	2240 Cranford Road
SPONER, HERTHA, (1935) Ph.D. <i>Professor of Physics</i>	Hope Valley
SYDNOR, CHARLES SACKETT, (1936) A.B., Ph.D. <i>Professor of History</i>	116 Pinecrest Road
†THOMAS, JOSEPH MILLER, (1930) A.B., Ph.D. <i>Professor of Mathematics</i>	2215 Cranford Road
THOMPSON, EDGAR TRISTRAM, (1935) A.B., A.M., Ph.D. <i>Associate Professor of Sociology</i>	138 Pinecrest Road
VOLLMER, CLEMENT, (1926) A.B., A.M., Ph.D. <i>Professor of German</i>	2114 Myrtle Drive

* On active duty, U. S. Army.

† Absent on leave, Government Service, 1944-45.

‡ Retired, June 30, 1944.

** On active duty, U. S. Navy.

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Professor of Chemistry 2319 Englewood Avenue
- WEBB, ALBERT MICAIAH, (1903) A.B., A.M.
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- WHITE, NEWMAN IVEY, (1919) A.B., A.M., Ph.D.
Professor of English 1003 Lamond Avenue
- WIDGERY, ALBAN GREGORY, (1930) B.A., M.A.
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- *WILSON, ROBERT RENBERT, (1925) A.B., A.M., Ph.D., LL.D.
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- WOLF, FREDERICK ADOLPHUS, (1927) A.B., A.M., Ph.D.
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- ZENER, KARL EDWARD, (1928) Ph.B., A.M., Ph.D.
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- ADDOMS, RUTH MARGERY, (1930) B.A., M.A., Ph.D.
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- †ANDERSON, LEWIS EDWARD, (1936) B.S., A.M., Ph.D.
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- BEAL, JAMES ALLEN, (1939) B.S., M.S., Ph.D.
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Associate Professor of Physiology and Pharmacology
- BERNHEIM, MARY LILAS CHRISTIAN, MRS., (1930) B.A., M.A., Ph.D. Woodridge Drive, Rockwood
Assistant Professor of Biochemistry
- BLACK, MARTIN LEE, JR., (1930) A.B., M.B.A., C.P.A.
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- ‡BONNER, LYMAN GAYLORD, (1937) A.B., Ph.D.
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- BOOKHOUT, CAZLYN GREEN, (1935) A.B., A.M., Ph.D.
Assistant Professor of Zoology 1307 Alabama Avenue
- BRADSHER, CHARLES KILGO, (1939) A.B., M.A., Ph.D.
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- BROWN, FRANCES, (1931) A.B., Ph.D.
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- CATTELL, RAYMOND BERNARD, (1944) B.S., Ph.D.
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* Absent on leave, Government Service, 1944-45.

† On active duty, U. S. Navy.

‡ Absent on leave, Government Service, second semester, 1944-45.

** On active duty, U. S. Marine Corps.

- CONANT, NORMAN FRANCIS, (1935) B.S., A.M., Ph.D.
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- CONSTANT, FRANK WOODBRIDGE, (1930) B.S., Ph.D.
Associate Professor of Physics 2239 Cranford Road
- CUSHMAN, ROBERT E., (1945) A.B., B.D., Ph.D.
Associate Professor of Christian Doctrine Duke University
- DANN, WILLIAM JOHN, (1934) B.S., Ph.D.
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- DAVIS, GIFFORD, (1930) A.B., A.M., Ph.D.
Assistant Professor of Romance Languages 2015 Wa Wa Avenue
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- DRESSEL, FRANCIS GEORGE, (1929) B.S., M.S., Ph.D.
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- EADIE, GEORGE SHARP, (1930) M.A., M.B., Ph.D.
Professor of Physiology and Pharmacology Hope Valley
- *EASLEY, HOWARD, (1930) A.B., M.A., Ph.D.
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- ELLIOTT, WILLIAM WHITFIELD, (1925) B.A., M.A., Ph.D.
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- ‡GARBER, PAUL NEFF, (1924) A.B., A.M., Ph.D.
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- †GATES, ARTHUR MATHEWS, (1909) A.B., A.M., Ph.D.
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- *GIBSON, WILLIAM MARION, (1934) A.B., A.M., Ph.D.
Assistant Professor of Political Science Duke University
- GOLDIN, JUDAH, (1943) B.S., A.M., D.H.L.
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- HALLOWELL, JOHN HAMILTON, (1942) A.B., A.M., Ph.D.
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- **HARRAR, ELLWOOD SCOTT, (1936) B.S., M.S., Ph.D.
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- ***HEBB, MALCOLM HAYDEN, (1938) A.B., Ph.D.
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- HETHERINGTON, DUNCAN CHARTERIS, (1930) A.B., M.A., Ph.D., M.D.
Associate Professor of Anatomy Hope Valley
- HILL, DOUGLAS, (1931) A.B., M.A., Ph.D.
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* On active duty, U. S. Navy.

† Retired, June 30, 1944.

‡ Resigned, July 20, 1944.

** Absent on leave, War Industry Service, 1944-45.

*** Absent on leave, Government Service, 1944-45.

- HOBBS, MARCUS EDWIN, (1935) A.B., A.M., Ph.D.
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- JEFFERS, KATHERINE R., (1937) A.B., A.M., Ph.D.
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- JOHNSON, MYCHYLE W., (1937) A.B., Ph.D.
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- *KEMP, EDWARD H., (1940) A.B., Ph.D.
Assistant Professor of Psychology 1403 Oakland Avenue
- KOCH, SIGMUND, (1942) A.B., A.M., Ph.D.
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- KRUMMEL, CHARLES ALBERT, (1922) Ph.B., Ph.M., Ph.D.
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- MARKEE, JOSEPH ELDRIDGE, (1943) B.S., Ph.D.
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- MARTIN, DONALD STOVER, (1932) A.B., M.D.
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- MAUGHAN, WILLIAM, (1931) B.S., M.F.
Professor of Forest Management 5 Sylvan Road
- NEURATH, HANS, (1938) Ph.D.
Associate Professor of Biochemistry 2505 Club Boulevard
- OOSTING, HENRY JOHN, (1932) A.B., M.S., Ph.D.
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- OUTLER, ALBERT C., (1938) A.B., A.M., B.D., Ph.D.
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- PEELE, TALMAGE LEE, (1939) A.B., M.D.
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- **QUYNN, DOROTHY MACKAY, MRS., (1930) A.B., A.M., Docteur de l'Université de Paris
Assistant Professor of History Woodridge Drive, Rockwood

* On active duty, U. S. Army.

† Absent on leave, Government Service, 1944-45.

‡ On active duty, U. S. Navy.

** Absent on leave, 1944-45.

- RANKIN, WILLIAM WALTER, JR., (1926) B.E., M.A.
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- *REID, JOHN TURNER, (1939) A.B., A.M., Ph.D.
Assistant Professor of Romance Languages Duke University
- ROSE, JESSE LEE, (1936) A.B., M.A., Ph.D.
Instructor in Latin and Greek 603 Watts Street
- RUSSELL, ELBERT, (1926) A.B., A.M., Ph.D., Litt.D.
Professor of Biblical Interpretation 804 Fourth Street
- SAYLOR, JOHN HENRY, (1928) A.B., A.M., Ph.D.
Associate Professor of Chemistry 707 Club Boulevard
- SCHUMACHER, FRANCIS X., (1937) B.S.
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- SEELEY, WALTER JAMES, (1925) E.E., M.S.
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- SMITH, DAVID TILLERSON, (1930) A.B., M.D.
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Assistant Professor of Economics 2236 Cranford Road
- †SPRINGER, JOHN YOUNG, (1936) A.B., M.B.A.
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- ‡STILL, BAYRD, (1938) A.B., A.M., Ph.D.
Assistant Professor of History Duke University
- STINESPRING, WILLIAM FRANKLIN, (1936) B.A., M.A., Ph.D.
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- TALBERT, ERNEST WILLIAM, (1942) A.B., A.M., Ph.D.
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- TAYLOR, HAYWOOD MAURICE, (1930) B.S., M.S., Ph.D.
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- †TRUESDALE, JAMES N., (1930) A.B., A.M., Ph.D.
Instructor in Greek Duke University
- VAN ALSTYNE, DOROTHY, (1942) A.B., A.M., Ph.D.
Visiting Assistant Professor of Education 102 Faculty Apartments
- WACKERMAN, ALBERT EDWARD, (1938) B.S., M.F.
Professor of Forest Utilization Dover Road, Hope Valley
- WALTER, DAVID OSWELL, (1942) A.B., A.M., Ph.D., J.D.
Visiting Assistant Professor of Political Science 2809 Legion Avenue
- WALTON, LORING BAKER, (1929) A.B., Lic. ès L., Ph.D.
Associate Professor of Romance Languages 2235 Cranford Road
- WARD, CHARLES EUGENE, (1927) A.B., A.M., Ph.D.
Associate Professor of English Guess Road

* Absent on leave, Government Service, 1944-45.

† On active duty, U. S. Navy.

‡ On active duty, U. S. Army.

WAY, VERNON ELGIN, (1930) A.B., A.M., M.A. <i>Assistant Professor of Greek</i>	909 Gregson Street
WILSON, ROBERT NORTH, (1910) A.B., M.S. <i>Professor of Chemistry</i>	822 Third Street
WOODY, ROBERT HILLIARD, (1929) Ph.B., A.M., Ph.D. <i>Associate Professor of History</i>	2648 University Drive

HUMM, HAROLD JUDSON, (1942) B.S., A.M. <i>Resident Investigator, Marine Station</i>	Beaufort, N. C.
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RESEARCH ASSOCIATES

<i>Name</i>	<i>Department</i>	<i>Home Address</i>
ADAMS, JOSEPH TAYLOR B.S., Southern Methodist University; Ph.D., Duke University	Chemistry	Durham, N. C.
AMORE, SALUATORE THOMAS A.B., Brooklyn College; A.M., Ph.D., Duke University	Chemistry	Durham, N. C.
BRESLOW, DAVID SAMUEL B.S., College of the City of New York; Ph.D., Duke University	Chemistry	Durham, N. C.
DARKIS, FREDERICK RANDOLPH B.S., M.S., Ph.D., University of Maryland	Chemistry	Durham, N. C.

UNIVERSITY FELLOWS

*BAKER, MAURY DAVISON, JR. A.B., University of Miami; A.M., Duke University	History	Richmond, Va.
BUCHANAN, EDITH A.B., Meredith College	English	Cullowhee, N. C.
CARROLL, HOWARD A.B., University of Richmond; B.D., Duke University	Religion	Easton, Md.
GESLING, MARTHA MYRA A.B., Ohio Northern University; A.M., Ohio State University	Education	Lancaster, Ohio
HERTZ, HILDA A.B., Skidmore College; A.M., Duke University	Sociology	Forest Hills, L. I., N. Y.
KREPS, CLARA JUANITA MORRIS A.B., Berea College; A.M., Duke University	Economics	Norfolk, Va.
KREPS, CLIFTON HOLLAND, JR. B.A., The College of William and Mary; A.M., University of North Carolina	Economics	Norfolk, Va.
LEWIS, FRANK BELL A.B., A.M., Washington & Lee University; B.D., Th.M., Union Theological Seminary	Religion	Maxwelton, W. Va.
MATTE, LORENZO B.A., Laval University; M.F., Duke University	Forestry	Quebec City, Canada
† MOSER, HAROLD EUGENE B.S., Johns Hopkins University; A.M., Teachers College, Columbia University	Education	Frederick, Md.
NAU, WALTER THEODORE A.B., Guilford College; B.D., Concordia Theological Seminary; A. M., Duke University	Romance Languages	Lexington, N. C.

* Resigned, January 31, 1945.

† Second semester only.

<i>Name</i>	<i>Department</i>	<i>Home Address</i>
PARKS, ELIZABETH MIRIAM A.B., Grinnell College	English	Denver, Colo.
RHODES, DANIEL DURHAM A.B., Davidson College; B.D., Louisville Presbyterian Theological Seminary	Religion	Rocky Point, N. C.
SALOMON, ANN DOUGLASS A.B., Swarthmore College	Psychology	New London, Conn.
SCHAFER, THOMAS ANTON A.B., Maryville College; B.D., Louisville Presbyterian Theological Seminary	Religion	E. Liverpool, Ohio
WIGGINS, ELIZABETH LEWIS A.B., Winthrop College; A.M., Duke University	English	Holly Hill, S. C.
WOOD, VIRGINIA LORAIN A.B., Roanoke College; A.M., Duke University	Political Science	Roanoke, Va.
YOUNG, FRANKLIN WOODROW A.B., Dartmouth College; B.D., Crozer Theological Seminary	Religion	Columbus, Ohio

GRADUATE SCHOLARS

BARSTOW, BETTY DICK A.B., University of Michigan	Mathematics	Midland, Mich.
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CLARK, ELLEN MERCER A.B., University of Richmond	Latin	Atlee, Va.
DUBOSE, SAMUEL WILDS A.B., Davidson College; A.M., Duke University; B.D., Union Theological Seminary	Religion	Hillsboro, N. C.
EVANS, ROBERT WELDON A.B., Hendrix College; B.D., Duke University	Religion	Batesville, Ark.
*JOHNSON, NATALIE KRISTINA A.B., Duke University	Romance Languages	Miami, Fla.
MCGRIFF, MARY EMILY A.B., Duke University	History	Birmingham, Ala.
†MULDROW, MARY FRANCES A.B., Georgia State College for Women	Romance Languages	Milledgeville, Ga.
ROGOLINO, MARY THERESA A.B., Florida State College for Women	Romance Languages	St. Augustine, Fla.
RUDISILL, DORUS PAUL A.B., Lenoir Rhyne College; A.M., University of South Carolina; B.D., Lutheran Theological Southern Seminary; S.T.M., Hartford Theological Seminary	Religion	Chapel Hill, N. C.
†SMITH, MARY BETTY A.B., Drury College	History	Springfield, Mo.
*TRUSCOTT, ETHEL IRENE A.B., Coker College	Religion	Lomas de Zamora, Argentina

* Second semester only.

† Resigned, January 31, 1945.

GRADUATE ASSISTANTS

<i>Name</i>	<i>Department</i>	<i>Home Address</i>
BISHOP, BENJAMIN HAROLD B.S., Wofford College	Chemistry	Spartanburg, S. C.
BRAVERMAN, HOWARD A.B., Brooklyn College	History	Brooklyn, N. Y.
BRYAN, THOMAS CONN A.B., Duke University; A.M., University of North Carolina	History	Skyland, N. C.
CAPUA, JULIUS PAUL, II A.B., Augustana College	History	Muskegon, Mich.
CLAVERING, ROSE A.B., Brooklyn College	English	Brooklyn, N. Y.
COHEN, ECKFORD LARRY B.S., Mississippi State College	Mathematics	Starkville, Miss.
COLLINS, HERBERT A.B., Brooklyn College	History	Brooklyn, N. Y.
CULBERTSON, JACK ARTHUR A.B., Emory and Henry College	German	Nickelsville, Va.
*CUMMINGS, ANNE BURT STAINBACK A.B., Hollins College	Psychology	Pittsburgh, Pa.
†DENNY, MARY REBECCA A.B., Salem College; A.M., Duke University	English	Charlotte, N. C.
DILLINGHAM, WILLIAM PYRLE B.A.E., University of Florida; M.S., University of Tennessee	Economics	Durham, N. C.
FOUCH, ANN A.B., Duke University	Zoology	Orrville, Ohio
GIULIANO, JERRY JAMES B.S., Duke University	Chemistry	Irvington, N. J.
HOLMAN, HARRIET R. A.B., Winthrop College; A.M., University of Michigan	English	Anderson, S. C.
HORN, HERMAN LIONEL A.B., Bridgewater College; A.M., Duke University	Political Science	Mt. Solon, Va.
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KNOX, NORMAN DAVIS A.B., Swarthmore College	English	Durham, N. C.
LAIR, EUGENIE DILLE A.B., Randolph-Macon Woman's College	Botany	Cynthiana, Ky.
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LUBORSKY, LESTER BERNARD A.B., Temple University; A.M., Duke University	Psychology	Philadelphia, Pa.
*MACKIE, MARY MILDRED B.S., Appalachian State Teachers College	English	Granite Falls, N. C.
PETERS, FRANK ANTHONY A.B., University of Alabama	History	Tuscaloosa, Ala.

* Second semester only.

† Resigned, January 29, 1945.

DUKE UNIVERSITY

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PURCELL, CHARLES WILLIAM, JR. A.B., Marshall College	History	Huntington, W. Va.
RINGLER, BETTY IRENE B.S., Florida State College for Women	Chemistry	St. Petersburg, Fla.
ROGERS, DOROTHY A.B., A.M., University of Georgia	Education	Ashburn, Ga.
*ROSENBAUM, HASKELL MENACHIM B.S., College of the City of New York	Chemistry	Sunnyside, N. Y.
SALTZMAN, IRVING JACKSON B.S., Massachusetts State College	Psychology	Dorchester, Mass.
SCHULZE, FRANCES ELAINE A.B., Marshall College	Psychology	Pelham Manor, N. Y.
SHIREY, WILLIAM ARTHUR A.B., DePauw University; A.M., Indiana University	Sociology	Durham, N. C.
TOMLINSON, MURIEL DOROTHY A.B., Bates College	Romance Languages	Manchester, Conn.
TURNER, ANNE CLARA A.B., University of Georgia; A.M., Duke University	Latin	Albany, Ga.
WARREN, MARGARET ELIZABETH A.B., Duke University	Chemistry	Shaker Heights, Ohio
WICKER, GLORIA LOUISE B.S., Lander College	Chemistry	Greenwood, S. C.
WIGGINS, PAULINE EVELYN A.B., University of Chattanooga	English	Birchwood, Tenn.
ZEKOWSKI, ARLENE JEAN A.B., Brooklyn College	Romance Languages	Brooklyn, N. Y.

GRADUATE RESEARCH ASSISTANTS

BLOOM, MELVIN SIGMUND B.S., Furman University	Chemistry	Greenville, S. C.
SCHERAGA, HAROLD ABRAHAM B.S., College of the City of New York; A.M., Duke University	Chemistry	Durham, N. C.
SHIVERS, JOSEPH CLOIS, JR. B.S., A.M., Duke University	Chemistry	Riverton, N. J.
WEISS, MARTIN JOSEPH A.B., New York University	Chemistry	New York, N. Y.
WEITH, ARCHIE JAMES, JR. A.B., A.M., Duke University	Chemistry	Caldwell, N. J.
YOST, ROBERT STANLEY B.S., Pennsylvania State College	Chemistry	Pottsville, Pa.

LABORATORY INSTRUCTORS

*FIELD, FRANK HENRY B.S., A.M., Duke University	Chemistry	Cliffside Park, N. J.
KINGSBURY, RALPH NORMAN B.S., Northeastern University	Chemistry	Milton, Mass.

* Resigned, March 1, 1945.

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LEVINE, ROBERT A.B., A.M., Dartmouth College	Chemistry	Boston, Mass.
PARKER, MARY ELLEN A.B., Randolph-Macon Woman's College	Chemistry	Roanoke, Va.
VINGIELLO, FRANK ANTHONY B.S. in Chem., Polytechnic Institute of Brooklyn	Chemistry	Brooklyn, N. Y.
WALKER, HOWARD GEORGE, JR. B.S., Duke University	Chemistry	Westfield, N. J.
*WISSOW, LENNARD JAY B.S., Pennsylvania State College; A.M., Duke University	Chemistry	Philadelphia, Pa.

GRADUATE APPOINTMENTS IN THE SCHOOL OF MEDICINE**Research Associate and Instructor in Biochemistry**

Putnam, Frank W. A.B., A.M., Wesleyan University; Ph.D., University of Minnesota	Durham, N. C.
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Nutrition Foundation Fellow in Biochemistry

Huff, Jesse William B.S., University of Pittsburgh	Jeannette, Pa.
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Research Fellow in Biochemistry

Erickson, John Otto B.S., University of Minnesota; Ph.D., Duke University	Hibbing, Minn.
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Abbott Laboratories Fellow in Biochemistry

Volkin, Elliott B.S., Pennsylvania State College	Mt. Pleasant, Pa.
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Research Assistants in Biochemistry

Tilden, Mary W. B.S., Duke University	Jamestown, N. C.
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Levitas, Nora A.B., Brooklyn College	Brooklyn, N. Y.
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* Resigned, April 1, 1945.

GRADUATE INSTRUCTION IN DUKE UNIVERSITY

ADMISSION TO GRADUATE COURSES

A student who has received the A.B. or B.S. degree from an institution of recognized standing for a four-year undergraduate course may be admitted to take graduate courses in the Graduate School of Arts and Sciences of Duke University, provided that his undergraduate record gives positive evidence of ability to undertake graduate study successfully. An average grade of not less than "B" is ordinarily accepted as evidence of such ability.

Applicants for admission are encouraged, and may be required, to take the Graduate Record Examination administered by the Graduate Record Office, 437 West 59th Street, New York City, which, on application, will suggest a convenient examination center. The scores made on this examination will be welcomed as an especially desirable credential. Students who take the Graduate Record Examination must make their arrangements directly with the Graduate Record Office, which charges a nominal fee of three dollars.

No college or university work taken before the Bachelor's degree is conferred, or fully earned, may be credited toward an advanced degree except under the following circumstances: A student of Duke University who lacks at the beginning of a semester not more than nine semester hours of fulfilling the requirements for the Bachelor's degree may obtain permission from the Dean of the Graduate School to take during the semester graduate courses sufficient to bring his total work to fifteen hours a week. Such graduate courses will be credited toward the degree of Master of Arts or Master of Education if registered in the Graduate School Office at the beginning of the term and if the student meets the requirements below for formal admission to the Graduate School.

A candidate for admission to graduate courses should ask the proper officer of the college(s) he attended to send directly to the Dean of the Graduate School an official transcript of his undergraduate record. An advanced student should provide also a transcript of the graduate work completed by him. Students who have attended more than one college or university should note that certification by one institution of work completed at another institution cannot be accepted. In no case will a transcript presented by the candidate himself be accepted as a basis for admission, nor will a transcript mailed by any institution be returned to the student. An application blank for admission will be provided upon request to the Dean of the Graduate School. The transcript and application should be submitted to the Graduate School by September 1 for admission in the autumn semester and by January 10 for admission in the spring semester.

TO THE GRADUATE SCHOOL

After twelve semester hours of graduate work, the student may apply for admission to the Graduate School, and thus become a candidate for the Master's degree. Such admission is dependent upon the fulfillment of two conditions. (1) The student must have made a mark of "G" or "Good" in at least three semester hours of work, with no mark less than "S." Candidates who cannot meet this condition may at a later time submit their records for re-evaluation, provided that in their subsequent work they shall have made a substantial number of "G's." (2) The student in his undergraduate work must have met substantially the requirements for the A.B. or B.S. degree at Duke University.* Any deficiencies of undergraduate work must be satisfied before admission to the Graduate School. Graduate courses taken at Duke University prior to formal admission to the Graduate School will count toward a higher degree provided they are in accord with its requirements and are acceptable to the major department. A graduate student may be requested to withdraw from the University at the discretion of the Dean of the Graduate School.

REGISTRATION

A student who is admitted to graduate courses will receive a permit to register, which he should present when he registers for courses. Before actually registering in the Graduate School Office, the student should consult with the Director of Graduate Studies or his representative in the department in which he proposes to major and receive written approval of his schedule of courses. This can be done during the registration period in September and January. The department concerned will determine whether a student is prepared to take any particular course. In all cases the student must make up without credit toward a graduate degree all prerequisites required by the major department of candidates for advanced degrees. Students who have fulfilled the minimum residence requirements for the doctorate but who are continuing resident study at Duke University for the degree should register in the Graduate School Office, even though there may be no fees to be charged.

New students are advised to arrive early during the registration period in order to formulate their programs. *Anyone registering for courses after the close of the regular registration period will be charged a late registration fee of five dollars.*

TUITION AND FEES**GENERAL FEES IN THE ACADEMIC YEAR**

The following table shows the general fees and charges collected from all students and the special fees collected from those taking courses in the sciences. All fees for each semester are due and payable, unless otherwise specified, at the time of registration at the beginning of that

* In meeting the requirements for the A.B. or B.S. degree at Duke University, a student is not allowed excessive concentration in any one field. The same principle is applied in evaluating the undergraduate record of candidates for admission to the Graduate School.

semester. No student is admitted to classes until arrangements have been made with the Treasurer of the University for the settlement of fees.

Matriculation, per semester.....	\$ 25.00
Tuition, per semester.....	100.00
Room-rent—See detailed statement on pages 24-25.	
Athletic Fee, admitting students to all athletic contests held on the University grounds, per semester.....	5.00
Damage Fee, payable annually in September.....	1.00
Medical Fee, per semester.....	5.00
Library Fee, per semester.....	5.00
Commencement Fee, payable once by graduate students in the last semester before a degree is conferred.....	3.00
Diploma Fee, payable by candidates for degrees at the beginning of the second semester, refunded if the diploma is not awarded.....	5.00
Special Thesis Fee, payable by candidates for Ph.D. degree in the last semester before the degree is granted. Returned on satisfactory publication of thesis. See page 32.....	50.00

SPECIAL FEES

Graduate students in the sciences are required to pay the regular laboratory fees for courses as determined by the various departments. An administrative fee is charged in connection with special research work in the summer under direction of a member of the Faculty.

STUDENTS FROM THE UNIVERSITY OF NORTH CAROLINA GRADUATE SCHOOL

Under an experimental plan of co-operation between the University of North Carolina and Duke University, regular students from the University of North Carolina Graduate School admitted to courses in the Duke University Graduate School pay a registration fee of two dollars and any laboratory or special course fees which are required of all students.

TRANSCRIPTS

A student desiring to transfer from Duke University to another institution is entitled to one free transcript of his record. A charge of one dollar, payable in advance, is made for each additional copy. Transcripts of students who enroll in graduate courses only in the summer sessions are issued by the Summer Session Office prior to the fulfillment of all requirements toward an advanced degree, after which time they can be obtained in the regular way from the Graduate School.

PAYMENTS TO FELLOWS, SCHOLARS, AND GRADUATE ASSISTANTS

Payments by the University of stipends to fellows, scholars, and graduate assistants are made in four equal installments, approximately the middle and end of each semester. Tuition and fees are charged against the stipends.

Fellows and scholars are required to pay the regular tuition and fees and are expected to take a full program of work. Assistants who are permitted to register for only four fifths of a regular program are charged a proportionate amount of the tuition in addition to the regular matriculation and other minor fees.

SPECIAL CHARGES FOR TEACHERS AND OTHERS

For the purpose of aiding North Carolina teachers in their professional preparation, Duke University grants a special tuition rate to members of the faculties of near-by schools and colleges who desire to register during the regular academic session for one or two graduate courses. For such courses a teacher regularly employed and teaching while taking these courses is charged a registration fee of five dollars at the beginning of each semester and a tuition fee of three dollars per semester hour of course credit, together with any laboratory fees which may be required in these courses. Under this provision a student may not register for more than seven hours per week.

Employees of Duke University who are paid on a monthly basis throughout the year, ministers of near-by churches, and wives of the Duke Faculty may be included under the above provisions by the Dean of the Graduate School, provided that such persons do not receive residence credit in any semester for more than two fifths of a regular program in meeting the requirements for advanced degrees.

The special tuition rate for teachers does not apply in any case to the holders of fellowships, graduate scholarships, and graduate assistantships annually awarded in the Graduate School nor to teachers on leave of absence and not actually engaged in their teaching at the time of registration.

LIVING ACCOMMODATIONS AND EXPENSES

ROOMS

On the West Campus a graduate building, Few Quadrangle, was opened in September, 1939, with accommodations sufficient to meet the requirements of the men in the Graduate School and in the professional schools. Special sections are reserved for those registered in the Graduate School of Arts and Sciences. On the East Campus a limited number of rooms in the Faculty Apartments is available to women registered in the Graduate School. Students' rooms, both on the Woman's College Campus and on the West Campus, are supplied with all necessary furniture. The student should plan to provide his own towels, sheets, pillows, pillowslips, bedcoverings, and table lamp.

Rooms for men in the graduate dormitory on the West Campus vary in rent between \$50.00, \$62.50, and \$75.00 per semester. In the Faculty Apartments on the Woman's College Campus, a single room rents for \$87.50 per semester, a double room for \$62.50 per semester per person.

Rooms are reserved only for students who have been officially admitted to graduate courses by the University. They are rented for no shorter period than one semester. The occupancy of a room for less than one semester will cost the student one dollar each day unless he makes the necessary arrangements with the Director in the Business Division before occupying the room. Men who desire to live in the graduate dormitory should make application to Mr. W. E. Whitford, Director of the Business Division; a room reservation fee of \$25.00 is payable at the date of acceptance of his application for admission to graduate courses.

Similarly, women who wish to room in the Faculty Apartments should make application and pay the room reservation fee to Mr. W. A. Tyree, Director of the Business Division. This fee is deducted from the room-rent in the fall and is not refundable unless the request is made on or before July 15. Early application for a dormitory room is essential if the student wants to be assured of living accommodations on the campus.

A resident student who wishes to retain his room for the succeeding year must pay first a reservation fee of \$25.00 to the Treasurer's Office and then notify the office of the Director of the Business Division on or before May 15. All rooms which have not been reserved by that date will be considered vacant for the succeeding year. When a room is once engaged by a student, no change will be permitted except with the consent of the Director of the Business Division.

Graduate students are required to observe the same general regulations as undergraduate students with respect to the use of the rooms. Leaving one room and occupying another without permission is strictly forbidden and will render the offender liable to a charge for both rooms for the entire semester. No occupant is permitted to rent or sublet a room to another occupant. The use of a room for merchandising of any kind is not allowed.

The University does not assume the responsibility of selecting and assigning roommates, though it will gladly render any assistance possible in the matter.

BOARDING ACCOMMODATIONS

Men and women enrolled in the Graduate School will find superior dining facilities in the Unions on the East and West Campuses. The charge for board approximates \$265 per year. The Union on the West Campus has, in addition to the regular dining halls, a coffee shop in which *a la carte* service is available.

ESTIMATED EXPENSES IN THE ACADEMIC YEAR

The necessary expenses of a graduate student are moderate. The University dormitories and Unions provide comfortable and wholesome living conditions at a minimum cost. Incidental expenses for recreation, smoking, traveling, clothes, and other items naturally depend on the tastes and habits of the individual. The table below lists the necessary college expenses for one year:

	<i>Low</i>	<i>Moderate</i>	<i>Liberal</i>
Tuition	\$200.00	\$200.00	\$200.00
Matriculation	50.00	50.00	50.00
Room-rent	100.00	125.00	150.00
Board	265.00	265.00	265.00
Laundry	20.00	25.00	30.00
Books	22.50	30.00	45.00
Library Fee	10.00	10.00	10.00
Athletic Fee	10.00	10.00	10.00
Damage Fee	1.00	1.00	1.00
Medical Fee	10.00	10.00	10.00
	<hr/>	<hr/>	<hr/>
	\$688.50	\$726.00	\$771.00

FELLOWSHIPS, SCHOLARSHIPS, AND ASSISTANTSHIPS

For the assistance and encouragement of graduate students of high character and marked ability, the University has established a considerable number of fellowships and scholarships. Holders of fellowships and scholarships will be expected to pay the tuition fee and such additional fees as are regularly required. Applications for these appointments together with supporting credentials should be received on or before March 1 of each year. In case vacancies occur, applications submitted on a later date will be considered. Appointments which were offered for the year 1945-46 are listed below.

FELLOWSHIPS

One Angier Duke Memorial Fellowship of one thousand dollars.

Twenty university fellowships with stipends varying from six hundred to eight hundred and fifty dollars each.

Two Gurney Harriss Kearns Fellowships in Religion of seven hundred dollars each.

Fellows will be required to give a limited amount of assistance in reading papers, in laboratories, or in other departmental duties. All fellows carry a full program of graduate work.

GRADUATE SCHOLARSHIPS

Twenty-five graduate scholarships with stipends varying from four hundred to four hundred and fifty dollars each.

Scholars may be asked to give a limited amount of assistance in departmental work. They normally carry a full program of graduate studies.

CHARLES W. HARGITT RESEARCH FELLOWSHIP IN ZOOLOGY

The Charles W. Hargitt Research Fellowship in Zoology, carrying a stipend of \$1,000, is restricted to research work in the field of *Cytology*. Appointment is for a single year, with the possibility of reappointment. The fellowship is primarily for postdoctoral research. Inquiries and applications should be made to Dr. George T. Hargitt, Biology Building, Duke University, Durham, North Carolina.

FELLOWSHIPS AND GRADUATE SCHOLARSHIPS IN FORESTRY

Information regarding special fellowships and graduate scholarships in forestry may be obtained before March 1, 1946, from the Dean of the School of Forestry, Duke University, Durham, North Carolina.

APPOINTMENTS AS GRADUATE ASSISTANTS

A considerable number of appointments as teaching assistants or readers will be available for graduate students. The compensation will usually range from \$300 to \$700, depending upon the nature and amount of the work assigned. Assistants receiving \$500 or more will be registered for four-fifths of a normal program of studies and accordingly will receive four-fifths residence credit. Assistants in this classification will be charged four-fifths of the tuition fee, and the same matriculation and minor fees as other students.

All holders of fellowships, scholarships, and graduate assistantships,

except as provided in the preceding paragraph, will be expected to pay the full tuition, matriculation, and minor fees which are paid by other graduate students. Even in cases where the fellow, scholar, or graduate assistant is given special permission to register for less than the maximum program allowed under his appointment, no reduction in fees will be granted. All appointments to scholarships, fellowships, and assistantships are for one academic year only.

Information regarding fellowships, graduate scholarships, and graduate assistantships, together with application blanks, may be obtained from the Dean of the Graduate School, Duke University, Durham, North Carolina.

SIGMA XI PRIZE AWARDS

The Society of Sigma Xi offers each year a prize of \$20 for a Master's thesis or its equivalent and one of \$40 for a Ph.D. dissertation or its equivalent in the fields of Botany, Chemistry, Forestry, Mathematics, Medicine, Physics, Psychology, and Zoology. The student must be in residence during the academic year in which the prize is awarded. Students holding graduate appointments are eligible to compete, but instructors, part-time instructors, and interns are not eligible. The department concerned makes the nomination. Full particulars may be obtained from the secretary of the chapter, Dr. Kenneth L. Duke, Room 421, Medical School.

ADVANCED DEGREES

The degrees offered in the Graduate School of Arts and Sciences are Master of Arts (A.M.), Master of Education (M.Ed), and Doctor of Philosophy (Ph.D.). Most departments of the University are now prepared to give a full program of work leading to the degree of Doctor of Philosophy.

REQUIREMENTS FOR THE DEGREE OF MASTER OF ARTS

LANGUAGE REQUIREMENTS

Candidates for the degree of Master of Arts are required to have a reading knowledge of a foreign language evidenced by examination or by transcript showing the completion of the third college year of the language, or to have a reading knowledge of French and German evidenced by transcript showing the completion of second-year college French and German.

MAJOR AND MINOR SUBJECTS

As a prerequisite to graduate study in his major subject, a student must have completed a minimum of twelve semester hours of approved *preliminary* courses in that department and twelve additional semester hours either in that department or in related work. Many departments require eighteen semester hours of undergraduate credit. The student, therefore, should read carefully the special requirements listed by each department.

To obtain the degree of Master of Arts, a candidate must complete satisfactorily twenty-four semester hours of graduate courses and a thesis.

(The student who takes more than fifteen semester hours of work in the Summer Session must complete a total of twenty-seven hours of course work and a thesis.) The credit for the thesis is six semester hours. Each candidate for the degree must select a major subject, in which the minimum requirement is twelve semester hours and the thesis. A candidate must take six semester hours of graduate work in a minor outside of but approved by the major department, and the remaining six semester hours in the major or minor fields or in a department approved by the major department and by the Graduate School Council. No undergraduate course may be credited toward the degree of Master of Arts.

RESIDENCE REQUIREMENTS

The minimum residence requirement of candidates for the Master's degree is one academic year. Often a longer period of residence will prove necessary. Those students who take more than fifteen semester hours of courses in the Summer Session must fulfill a minimum residence requirement of thirty-three weeks.

Not more than six semester hours of credit toward the Master's degree may be given to graduates of Duke University or of other colleges or universities for acceptable graduate courses or research work completed elsewhere. Such credit shall not shorten the minimum period of full-time residence work required at Duke University. However, with the approval of the student's major department and the Dean of the Graduate School, the student with such credit may be permitted to take six semester hours of required undergraduate training, six semester hours of a required language, or to register for nine or twelve hours of thesis research instead of the usual six semester hours. No credit toward advanced degrees is given for university extension or correspondence courses.

All the work offered for the Master's degree, whether in the regular academic year or in summer sessions, must be completed within a period of six years from the date of beginning.

THESIS

The title of the thesis required in partial fulfillment of the requirements for the degree of Master of Arts or Master of Education must be filed with the Dean of the Graduate School on or before November 15 of the academic year in which it is expected that the degree will be conferred. The subject must receive the written approval of the Director of Graduate Studies of the department in which the candidate has his major field of work and also of the professor under whom the thesis is being written.

Four (or, at the discretion of the department, three) bound typewritten copies of each thesis must be submitted to the Dean of the Graduate School in approved form on or before May 1 of the year in which the degree is conferred. All copies of the thesis should be brought to the Graduate Office before distribution to the examining committee. The examining committee is composed of three members of the Graduate Faculty appointed by the Dean of the Graduate School after consultation with the

professor directing the thesis. Two copies of the approved thesis, the original and one carbon copy, are endorsed by the examining committee and returned to the Dean of the Graduate School, who deposits them in the University Library.

EXAMINATION

Each candidate for the Master's degree is required to appear before the committee mentioned above for a final examination, which will approximate one and one-half hours in length and will be on the thesis and major field.

REQUIREMENTS FOR THE DEGREE OF MASTER OF EDUCATION

The degree of Master of Education is granted to teachers or others engaged in educational service, upon the completion of the prescribed program of study. Candidates for the degree must have had two years of practical experience in teaching when the degree is conferred. This experience may be obtained at any time prior to entering upon candidacy for the degree, or it may be obtained concurrently with the period of study for the degree.

A preliminary requirement for admission to graduate study for this degree is the completion of a minimum of eighteen semester hours of approved undergraduate work in education, including courses in educational psychology and in the history of education, or educational sociology, or school administration. In addition, before being accepted as candidates for the degree, students must early in their residence (1) make a satisfactory score on a test of general ability and (2) demonstrate by examination that they can write acceptable English.

The degree of Master of Education may be earned either with or without a thesis.

Requirements without thesis. Students who elect not to write a thesis must earn thirty hours of course credit (thirty-three in the Summer Session). Twelve of these hours must be secured from the four basic required courses, Education 300, 304, 305, and 317. Besides taking these courses in the usual manner, students must also, toward the end of their residence, pass a comprehensive examination on the content and interrelationships among these four courses. Approval by the Director of Graduate Studies in Education is required before students are permitted to take the comprehensive examination. On this account notice of intention to take the comprehensive examination must be filed with the Director of Graduate Studies three weeks before the announced date of the examination.

Exemption from not more than two of the four basic courses will be allowed students who can by examination show that they already possess adequate knowledge of the subject matter area or areas involved. Such students must, however, substitute other courses for those from which they are excused, thus still earning the minimum of thirty (or thirty-three) hours of course credit.

Other requirements: a departmental major of at least twelve hours, and an extradepartmental minor of at least six hours. (See page 53 of

this *Bulletin* for suggestions with respect to minors.) Toward the end of their residence students must stand a comprehensive examination on their departmental major.

Requirements with thesis. Students are permitted to substitute a thesis for six hours of course credit, provided (1) that in the first fifteen hours of their work (twelve, in the Summer Session) they earn a "G" record on at least six hours, and (2) that they can present a thesis subject which has been approved by the member of the staff in Education who will supervise the thesis as well as by two other members of the staff. (Two of the three faculty members approving the subject must be resident members of the staff in Education.)

Besides the thesis, students must earn twenty-four hours of course credit (twenty-seven in the Summer Session). Six of these hours must be earned by taking any two of the basic courses, Education 300, 304, 305, and 317. (Thesis students are exempted from the comprehensive examination which is required of non-thesis candidates.) Of the remaining eighteen hours (twenty-one in the Summer Session), six hours must be taken in some department other than Education. (See page 53 of this *Bulletin* for suggestions.) The other twelve (or fifteen) hours are taken in the departmental major. All other requirements, such as those relating to residence, preparation of thesis, thesis examination, etc., are the same as for the degree of Master of Arts.

REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

THE DEGREE

The degree of Doctor of Philosophy is a research degree; it is not based merely upon the completion of a prescribed period of study or upon the obtaining of credit for a given number of courses. The granting of the degree will be based primarily upon evidence of high attainments in a special field of knowledge and upon the production of a thesis embodying the results of original research.

A student who plans to enter upon a program of work leading to the degree of Doctor of Philosophy should consult or enter into correspondence with the Dean of the Graduate School or the Chairman or Director of Graduate Studies of the department concerned. He will then be advised as to the possibility of securing the necessary instruction and supervision of research in the desired field.

RESIDENCE

The normal period of resident graduate study is not less than three academic years. The candidate must spend at least either the last year in actual residence at Duke University, or the first two years. A substantial amount of course work in addition to the thesis will be required. A student whose undergraduate work is insufficient in amount or unsatisfactory in character may expect to spend additional time in preliminary courses essential as a basis for the graduate work he proposes to undertake.

Credit for one year of work done in summer sessions may be given with the approval of the Graduate School Council and the department in which the student takes his major work. Except in unusual cases, graduate work of fragmentary character taken over a long period of years, or work completed many years before the student becomes a candidate for the degree at Duke University, will not be accepted as satisfying the requirements of residence.

PROGRAM OF STUDY

In the student's second year of graduate work a committee of five members is appointed by the Dean to formulate in consultation with the student the remainder of his doctoral program of study. The professor in charge of his research or the Chairman or Director of Graduate Studies in the student's major department serves as chairman. This committee, with occasional necessary changes, serves also as the examining committee on the student's preliminary and final Ph.D. examinations.

The program recommended by the committee is submitted to the Dean of the Graduate School for his approval on the regular form provided for that purpose. The student must select a major field and one or more minor related fields. When a department offers instruction in a sufficient variety of subjects and the needs of the individual student seem to require it, the Dean of the Graduate School may permit a major and minor to be taken in the same department. In all cases the student is encouraged to select a minor outside the major department.

FOREIGN LANGUAGES

A reading knowledge of French and German will be required. The student will be examined on one of the foreign languages at the beginning of his second year of graduate work. No person may appear for his preliminary examination without having satisfied the language requirements for the Doctor's degree. The department in which he takes his major work may indicate preference as to the language in which the student shall first be examined. Foreign language examinations will be conducted by the appropriate language department in conjunction with the department in which the student has his major field of work.*

PRELIMINARY EXAMINATION

Toward the end of the second full year of graduate work (or in special cases early in the third year), a preliminary examination of each candidate will ordinarily be held covering the general field of his studies. This examination will be conducted by the committee in charge of the student's work and will be either oral or written, or both as the committee may determine. A student who passes the examination will be recognized as a candidate for the Ph.D. degree. The examination on his minor subject or subjects will ordinarily be held at the time of his preliminary examination. Graduate students who transfer to Duke University to work toward the degree of Doctor of Philosophy and who have already

* See University Calendar, pp. 5-6.

passed the preliminary examination for that degree at another university must take the regular preliminary examination at Duke University.

If a student fails on his first examination, he may make a second attempt after six months upon the recommendation of his committee and the approval of the Dean of the Graduate School. Two failures on this examination make the student ineligible to continue work toward the Ph.D. degree at Duke University.

THESIS

The thesis for the Ph.D. degree must be a contribution to knowledge. The subject should receive the written approval of the Director of Graduate Studies of the department in which the candidate has his major field of work and also of the professor under whom the thesis is being written. The title of the thesis must be filed with the Dean of the Graduate School on or before October 15 of the academic year in which the candidate desires to take the final examination for his degree.

The thesis must be completed to the satisfaction of the professor under whom it is written, and four bound, typewritten copies in approved form must be deposited with the Dean of the Graduate School on or before April 15 if the student desires to be examined on the thesis in the same academic year. The bound copies of the thesis should contain at the end an autobiographical sketch of the student. The title page must be approved by the major department and by the Dean of the Graduate School. The student should bring to the examination ten copies of the autobiographical sketch and ten copies of a brief summary of the thesis. Two copies of the approved thesis, the original and one carbon copy, are endorsed by the examining committee and returned to the Dean of the Graduate School, who deposits them in the University Library.

Before the degree is conferred the candidate must deposit with the Treasurer of the University a special thesis fee of fifty dollars in cash. If the thesis is published in a form satisfactory to the Dean of the Graduate School and to the professor under whom it is written within a period of three years from the date the degree is granted, the fee of fifty dollars is returned. Ten copies of the published thesis must be filed in the Graduate School Office as provided by regulations of the Graduate School Council. A suitable abstract, or one or more articles, may be accepted as satisfying the publication agreement. If the thesis is not published within the three-year period in a form accepted by the Dean of the Graduate School and by the professor under whom it is written, the deposit of fifty dollars is forfeited, becoming the property of the University. The forfeited thesis fees are credited to a special Thesis Fund which may be used for the publication of such theses as appear to the Graduate Council as worthy of subsidization.

FINAL EXAMINATION

The final examination on the thesis and on the related subject matter in the major or the minor fields will be oral. Approximately one year must elapse between the dates of the preliminary examination and the

final examination. Two failures on this examination make a student ineligible to continue work toward the Ph.D. degree at Duke University. The second examination may be given only upon the recommendation of the professor in charge of the thesis and the approval of the Dean of the Graduate School.

THE GRADING OF GRADUATE STUDENTS

Members of the Faculty are expected to report the grades of graduate students not later than February 10 for the first semester and not later than June 6 for the second semester on the cards provided for that purpose.

In the grading of graduate students, "S" or satisfactory shall represent work of an acceptable character, "G" or good shall be the next higher grade, and "E" or exceptional shall be the highest grade. "F" or failing indicates that the grade of the student is below passing. In a course in which both graduates and undergraduates are enrolled, the grade "S" shall represent approximately an 80 per cent rating. A mark of "Incomplete" may be given when a student has failed, for an acceptable reason, to complete some portion of the required work in a course in which his standing is generally satisfactory. Unless a report is made within one year that the course has been satisfactorily completed, all credit will be lost. No residence credit is granted for that part of a student's program which he fails to complete in a satisfactory manner.

GENERAL REGULATIONS

Not more than twenty-five students are permitted in a class giving graduate credit, nor are undergraduate students below the Senior year permitted in such a class. Exceptions to these rules may be made by special permission of the Graduate School Council on recommendation of the department concerned.

Candidates for advanced degrees should notify the Graduate School Office by April 1 of each year whether or not they expect to complete the requirements for the degree in time for the Commencement in May.

THE LIBRARY

The total number of volumes in the University Libraries on June 30, 1944, was 705,925 volumes. These were distributed among four main units: the General Library with 525,197 volumes; the Hospital (Medical) Library, 41,579 volumes; the Library of the Law School, 76,274 volumes; and the Woman's College Library, 62,875 volumes.

The work of students in the Graduate School is carried on primarily in the General Library. A Reading Room, which contains the reference material most in demand, provides a quiet and convenient place for study. Graduate students are also admitted freely to the stacks. Within the stacks are located 108 carrells or desks which are assigned on an annual basis, preference being given to students in the Graduate School. To facilitate work in the natural sciences, the General Library maintains

departmental libraries adjacent to laboratories for the Departments of Chemistry, Physics, and Biology. Departmental libraries are also maintained for the Divinity School, the College of Engineering, and the School of Forestry.

In the field of mathematics and the sciences particular attention has been given to securing files of important journals and serials. A check-list of all scientific periodicals and serials on the University campus shows a total of approximately 2,460 files in a more or less complete form. The total number of current periodicals received by subscription, exchange, and gift in 1943-44 was 2,969, exclusive of duplicates.

In the field of the social sciences and the humanities every effort has been made to secure the basic collections of source material as well as the more important publications of criticism and discussion. This has been done by the acquisition of such sets as the *Die Griechischen Christlichen Schriftsteller der ersten drei Jahrhunderte*, *Corpus Scriptorum Ecclesiasticorum Latinorum*, Migne's *Patrologia*, the *Corpus Scriptorum Historia Byzantiae*, the *Monumenta Germaniae Historica*, the *Acta Sanctorum*, the *Corpus Reformatorum*, the catalogues of the manuscript collections of the larger European libraries, complete files of the publications of the League of Nations, the International Labor Office, and many others. The endeavor to select the more important items in the various fields of graduate work has been supplemented by the purchase of a number of special collections and libraries. Among the more important of these might be mentioned a Peruvian library of approximately seven thousand books and manuscripts; a library of several thousand volumes dealing with Brazil; the Robertson library of Philippiniana; the Lanson Collection of French literature consisting of twelve thousand books and monographs; a Goethe collection of one thousand volumes; a Scandinavian collection of three thousand volumes; a collection of about five thousand items of early Americana, dating from the seventeenth century to 1820; the Holl church history library dealing primarily with the period of the Reformation; a collection of many thousands of church minutes and records of American denominational history; two collections of eighteenth-century English poetry and prose totaling about five thousand items; two special collections, one dealing primarily with Byron and the other with Coleridge, containing a number of manuscripts, annotated copies, and first editions; a collection of material on the Fourier movement; and the Thomas Collection of books on Chinese history and culture. Special mention should be made of the George Washington Flowers Collection of manuscripts, books, newspapers, and pamphlets dealing with all phases of Southern history, and of the Trent Collection of Walt Whitman books and manuscripts.

PUBLIC DOCUMENTS

The importance of public documents as fundamental source materials for the social sciences and as containing also some of the most important work in the field of applied science is being clearly recognized, and an excellent start has been made toward a comprehensive collection of this

material. The Library has been a depository for Federal documents since 1890. State documentary publications are also being systematically collected in co-operation with the University of North Carolina. Of European public documents a representative collection has been secured. Among the more notable items might be mentioned the *British Parliamentary Papers* (since 1925), *Calendar of State Papers*, the *Acts of the Privy Council*, *Hansard's Debates*, the *Débats Parlementaires* of the French Senate and Chamber of Deputies, the *Journal Officiel de la République Française*, the *Bulletin des Lois de la République Française*, the *Reichsgesetzblatt*, the *Verhandlungen des Reichstages*, the *Atti* of the Italian Parliament, and the *Diario* of the Spanish Cortes. The public documents of the Latin-American countries, especially Argentina, Brazil, Chile, and Peru, form one of the strongest units of the Library.

Under this heading should be mentioned also the Library of Professor Louis Strisower, Sometime President of the Institute de Droit International, which contains approximately five thousand volumes dealing with international law. The volumes date from the seventeenth century to the present and contain some especially valuable periodical files and rare books.

PUBLICATIONS OF EUROPEAN ACADEMIES

The Duke University Library has the publications of many of the European academies, containing monographs in most of the fields of knowledge and constituting important sources for the research programs of graduate students and Faculty. The sets comprise about two thousand volumes and include *Preussische Akademie der Wissenschaften* (Berlin); *Gesellschaft der Wissenschaften zu Göttingen*; *Sächsische Akademie der Wissenschaften* (Leipzig); *Bayerische Akademie der Wissenschaften* (Munich); *Heidelberger Akademie der Wissenschaften*; *Akademië der Wissenschaften* (Vienna); *Académie des sciences* (Paris); *Académie des inscriptions et belles-lettres* (Paris); *Académie des sciences morales et politiques* (Paris); *Accademia nazionale dei lincei*; *Accademia pontificia dei nuova lincei* (Rome); *Real academia española* (Madrid); *Academia de la historia* (Madrid); *Akademia nauk* (Leningrad); *Dansk videnskabskabernes selskab* (Copenhagen); *Norsk videnskapsakademi i Oslo*; *Akademie van Wetenschappen* (Amsterdam); *Académie royale des sciences, des lettres et des beaux-arts de Belgique* (Brussels); *Akademiya umiejtnosci* (Krakow).

NEWSPAPERS

The Library collection of newspapers contains around twelve thousand volumes. Practically all states of the Union are represented, although the major part of the collection is from along the Atlantic seaboard. Of the eighteenth-century items, the states best represented are Massachusetts, Maryland, New York, Rhode Island, Virginia, North Carolina, South Carolina, and Georgia. There is an excellent collection of nineteenth-century New England papers. The World War period is unusually strong with about twenty-eight titles practically complete for 1914-19.

There is a group of papers from Germany in the years just after the World War. Special emphasis has been placed on the Southern States, and there are numerous volumes of papers from North Carolina, South Carolina, and Virginia, representing the Colonial period, the Antebellum period, and the Civil War period. The current subscription list of eighty-three titles represents American public opinion and contains fourteen important foreign titles.

MANUSCRIPTS

The manuscript collection now contains 882,223 items relating chiefly to the South Atlantic region. Most numerous are records of military, social, and economic life in the Confederate period including letters, diaries, rosters, military reports, statutes of the Confederate Congress, court records, and papers of various departments of the Confederate Government. Outstanding among the many papers providing a well-rounded picture of life in the South during the nineteenth century are original census returns of Georgia, Kentucky, Louisiana, and Tennessee for 1850 and 1860. The collection, most copious in the field of history, contains information on all phases of social and economic life as well as politics. Numerous large collections bear particularly on the history of Alabama, Georgia, North Carolina, South Carolina, and Virginia. Of interest for historical studies are the papers of P. G. T. Beauregard, John C. Calhoun, David Campbell, Robert Carter, Clement C. Clay, Henry Clay, William H. Crawford, John J. Crittenden, Jefferson Davis, Nathanael Greene, Andrew Jackson, Robert E. Lee, Alfred T. Mahan, Alexander H. Stephens, and others. The field of American literature is represented by papers of Thomas Holley Chivers, John Esten Cooke, Clara V. Dargan, Paul Hamilton Hayne, George Frederick Holmes, Alexander B. Meek, Thomas Nelson Page, Augustin L. Taveau, and Walt Whitman. Among the non-Southern materials there are interesting groups of papers centering on George Moore, the Rossettis, Robert Southey, and Tennyson. Of the medieval manuscripts, consisting chiefly of lectionaries and copies of the New Testament, one thirteenth-century New Testament in Greek is noteworthy. The Library has recently acquired the official files of the Socialist Party of America extending from 1901 to 1938, and a collection of the papers of George Holyoake.

EXCHANGE PRIVILEGES WITH THE LIBRARY OF THE UNIVERSITY OF NORTH CAROLINA

The libraries of Duke University and of the University of North Carolina have arrangements for the fullest exchange of privileges and resources. Each library contains a catalogue of the contents of the other, and books requested from the other library are supplied through a delivery service which operates weekly. Faculty members and graduate students may secure cards admitting them to the stacks of the other library. The Library of the University of North Carolina contains approximately 450,000 volumes, besides a large collection of manuscripts relating to Southern history. Under this arrangement more than 1,150,000 volumes are available to students in the combined libraries.

SCIENCE LABORATORIES**BIOLOGICAL LABORATORIES**

The Biology Building on the West Campus contains three refrigerated rooms, an incineration room, a workshop, an aquarium room, five animal rooms connected with outside yards, and eight dark rooms. Special laboratories are provided for advanced work in plant and animal physiology, parasitology, cytology, taxonomy, bacteriology, ecology, histology, mycology, anatomy, embryology, endocrinology, entomology, forest soils, and wood anatomy and properties. A 300-acre arboretum is being developed adjacent to the campus with Dr. E. S. Harrar in charge. A greenhouse gives adequate space for experimental work and propagation. There is an herbarium of some fifty thousand specimens of all plant groups with a large representation of the Southern flora. Dr. H. J. Oosting is Curator of the Herbarium, and Dr. I. E. Gray is Curator of the Zoological Museum. On the East Campus, laboratories are provided for undergraduate women, and there is a small greenhouse near the Science Building. Laboratories and rooms for students doing research are equipped with vacuum, compressed air, direct and alternating current, gas, and running water. Proper equipment and supplies for biological work are available.

The Duke Forest and its streams provide excellent collecting grounds. The Duke Forest is under the management of the School of Forestry. Duke University is situated in the Piedmont region, between the mountains and the coastal plains. This gives easy access to a varied flora and fauna. North Carolina is the home of the tulip poplar, holly, rhododendron, mountain laurel, flowering dogwood, several species of insect-catching plants, cypress, and other interesting plants. Among the animals are a varied assortment which range from marine to mountain species. In the woods about the University there is a great variety of animals.

The Duke Marine Laboratory at Beaufort, North Carolina, provides facilities for work on plants and animals in and near the ocean. It is situated on Piver's Island, adjacent to the Biological Laboratory of the United States Fish and Wildlife Service. Dr. A. S. Pearse is Director.

PHYSICAL LABORATORIES

The physical laboratory contains approximately an acre of floor space which is devoted to instruction and research. In addition to the usual lecture and elementary laboratory facilities, laboratories are provided for work in electrical measurements, optics, atomic physics, and advanced measurements in general physics.

Rooms are provided for various instruments of research in spectroscopy, such as a 10-foot concave grating which is used in conjunction with a 32-meter-long stainless steel pipe for study of weak absorption; a vacuum spectrograph with a 2-meter glass grating; an apparatus for the study of the Raman spectra of gases photographed with a large 3-prism glass f 2.5 glass Zeiss spectrograph and various other spectroscopic instruments, such as the Hilger E-1, Moll microphotometer, etc.

Research facilities, such as counters, cloud chambers and ionization

chambers, are available for the study of the properties of extremely high energy particles such as those present in the cosmic radiation.

A well-equipped shop operated by trained instrument makers makes possible the development of instructional and research apparatus. A shop is also provided for the use of the Staff and graduate students.

CHEMICAL LABORATORIES

Graduate work in chemistry is carried on in a modern building with a floor area of about 57,000 square feet. Of this total space a large proportion is available for research and advanced teaching. There are twenty-five double research rooms completely equipped with the usual services. In addition, a number of specially designed rooms are available for present or future research, such as a photographic room, constant temperature room, distillation room, combustion room, bomb room, and rooms equipped with dielectric constant and magnetic measurements.

A glass-blowing room and a well-equipped shop, operated by a competent mechanic, provide facilities for the construction of special apparatus and for the repair and maintenance of instruments.

MEDICAL SCHOOL

In the School of Medicine elaborate facilities are provided for post-graduate research in the various branches of medical science. The Departments of Anatomy, Bacteriology and Immunology, Biochemistry, and of Physiology, Pharmacology, and Nutrition offer certain courses and adequate research facilities to students in the Graduate School of Arts and Sciences. The use of the Duke Hospital Library is available to all graduate students.

THE DUKE FOREST

Through placing the Duke Forest under intensive management for forestry purposes, substantial progress has been made in developing the educational work and research in forestry. The Duke Forest consists of approximately six thousand acres of land, most of which is adjacent and easily accessible to the University campus. Situated in the lower Piedmont region and composed of second-growth shortleaf pine, loblolly pine, and hardwoods, the Forest is representative of the various types of timber growth and soils found throughout the region.

The proximity of the Forest to the laboratories, greenhouses, and library facilities of the University provides an excellent opportunity for advanced study and research in forestry. Research, particularly in the fields of silvics, forest soils, silviculture, forest management, properties of wood, forest-tree physiology, and forest pathology, is well under way. Several members of the Botany and Zoology Staffs are also engaged on research in the Duke Forest.

For additional information see the *Bulletin of the School of Forestry*.

ENCOURAGEMENT OF RESEARCH

The President of the University appoints annually a University Council on Research. The members of this Council are chosen from the

Faculties of the Schools of Medicine and Law, the Divinity School, and the Graduate School of Arts and Sciences. In May of each year the Council on Research receives written applications from members of the Faculty for subsidies to be used in the following fiscal year to aid them in carrying out research projects. Stipends are granted for the employment of research assistants, for the purchase of books, and for apparatus, supplies, and equipment. Each member of the Faculty to whom a research stipend is granted must make a written report within twelve months to the Council concerning the progress of the investigation for which the stipend was allowed.

SPECIAL LECTURES

During each academic year the University Lecture Committee arranges for a number of special lectures of value to graduate students interested in various fields of knowledge. The Woman's College Lecture Series brings other guests to the campus. In addition to these lectures, a number of distinguished speakers appear each year on the programs of various schools and departments of the University.

Among the guest lecturers in 1944-45 were Mr. Tom Connelly, Chairman of the Foreign Relations Committee of the United States Senate, and Mr. Eric Johnston, President of the Chamber of Commerce of the United States.

THE UNIVERSITY PRESS

In 1897 Trinity College began sponsoring the publication of "The Papers of the Trinity College Historical Society," which was distributed to members of the Society and on exchange to other institutions. This series was the first publishing venture of the College. In 1902, the 9019, an honor scholastic society on the campus, founded *The South Atlantic Quarterly*, which is now published by the Press.

In 1921 the Trinity College Press was established to publish the results of research engaged in by the Faculty and such other works as were approved by a board of editors appointed for the purpose. In 1925, with the acceptance of the benefaction of James B. Duke, Trinity College became one of the undergraduate colleges of Duke University, and the following year the University Press was organized to succeed the Trinity College Press.

One of the first steps of the new organization was to revive *The Hispanic American Historical Review*, which had been founded and published from 1918 to 1922 by a group of scholars interested in Hispanic America. Since 1926 its publication has been continued without interruption, and its mission has been supplemented by many studies dealing with the history, politics, and foreign relations of the Hispanic nations of the New World. In 1929 *American Literature* was begun with the co-operation of the American Literature Group of the Modern Language Association. This journal was followed in 1931 by *Ecological Monographs*, a quarterly sponsored by the Ecological Society of America, to take care of papers too long for inclusion in *Ecology*. *Character and*

Personality, an international quarterly appearing simultaneously in the United States and Great Britain, was founded in 1932 as a medium for the publication of studies in fields related to this phase of psychology. In 1935 the Press started the publication of the *Duke Mathematical Journal*, with the co-operation of the Mathematical Association of America, and in 1937 *The Journal of Parapsychology* for the publication of the results of research in extrasensory perception and related topics. For the Southern Association of Colleges and Secondary Schools, the Press publishes *The Southern Association Quarterly*, the official organ of the Association. The Law School of Duke University sponsors *Law and Contemporary Problems*, presenting a symposium of some important legal problem in each number.

Besides its books, monographs, and regular quarterly publications the Press issues "Contributions to Psychological Theory" and "Duke University Research Studies in Education," the latter sponsored by the Department of Education of the University.

Since its organization the Press has offered to the public the products of scholarly research to the number of more than one hundred and twenty-five volumes. It has not limited its scope to any one field or to any one group of authors. In addition to the many works submitted by members of the Faculty, a great number of titles by authors without a connection with the University have been issued under the imprint of the Press.

In the broadest sense, the present policy of the Press is to give to the public any scholarly work which, because of the merit of its contents, its style, and its general value, deserves publication.

APPOINTMENTS OFFICE

The University maintains an Appointments Office, whose services are extended to all graduate students without charge. Although placement of students in employment is most frequent in the fields of high-school teaching and industrial or commercial work, graduate students interested in college teaching or other activities should register with the Office in order to make available in one center information respecting their various qualifications for the employment they seek.

GRADUATE STUDY IN THE SUMMER SESSION

The Duke University Summer Session is divided into two consecutive terms of six weeks each. In 1945 the first term begins June 19 and ends July 30; the second term begins July 31 and ends September 8. Graduate students who wish to work toward advanced degrees in the Summer Session, particularly in Education, English, History, and Mathematics, will ordinarily find a wide selection of courses offered by members of the Duke Faculty and by visiting professors. Other departments offering sequences of work leading to the Master's degree in a series of summer terms are Botany, Economics, French, Physics, Political Science, Psychology, Religion, Sociology, Spanish, and Zoology. Students in Botany and Zoology have unusual opportunities for research and study at the Duke

Marine Laboratory near Beaufort, North Carolina, besides regular course offerings at the University. The offerings for 1945 are somewhat restricted by war conditions.

Graduate students who present more than fifteen semester hours earned in summer sessions toward the Master's degree must meet a minimum residence requirement of thirty-three weeks. No graduate student may register for more than six semester hours of credit in one summer session of six weeks. All the work presented for the Master's degree must be completed within six years from the date of beginning. Work completed earlier is not accepted toward either the course or residence requirements. Not more than one year of summer work is accepted toward the residence requirements for the Ph.D. degree.

A bulletin containing information regarding the graduate courses to be offered during the summer of 1945 may be obtained by addressing the Director of the Summer Session, Duke University, Durham, N. C. Summer Session graduate students who desire to be admitted to graduate courses to work toward advanced degrees should make application to the Dean of the Graduate School by June 1 for admission to the first summer session and by July 15 for admission to the second summer session. They should also request the registrar of the college(s) attended to send to the Dean of the Graduate School an official transcript of their undergraduate record.

COURSES OF INSTRUCTION

Unless otherwise stated, all courses listed in this catalogue will be given on the West Campus. For those courses offered on the East Campus (E) will be inserted following the description. In general, courses with odd numbers are offered in the first semester, those with even numbers in the second semester. Some seminars bearing a single number continue throughout the year; in such cases it is indicated whether the semester hours of credit apply to the year or to each semester. All courses are offered subject to the exigencies of the war situation.

DIVISION OF ANCIENT LANGUAGES AND LITERATURES

PROFESSORS ROGERS AND STINESPRING; ASSOCIATE PROFESSOR CLARK; ASSISTANT PROFESSOR WAY; DRS. ROSE AND TRUESDALE

GREEK

Three types of courses are offered for graduate study by the Greek Department, and one representative of each type is given every year. One group of courses is devoted to extensive reading in the six departments of classical Greek literature; another deals with Greek archaeology, dialects, and inscriptions; and the third is a series of seminars covering four years. The courses of each type rotate from year to year in a fixed order for the most part. In 1945-46 the courses offered are 207-208, 247-248, and 301-302.

The requirements for admission to graduate work is four years' study of the Greek language or twenty-four semester hours of course credit. A student with fewer credits may be admitted if he has undoubted ability.

FOR SENIORS AND GRADUATES

201-202. Greek Tragedy.—6 s.h. Dr. ROSE

203-204. Homer.—*Odyssey*. Pindar and Bacchylides. 6 s.h.
ASSISTANT PROFESSOR WAY AND DR. TRUESDALE

205-206. Greek Historians.—6 s.h. Dr. ROSE

207-208. Greek Orators.—6 s.h. ASSISTANT PROFESSOR WAY

209-210. Plato.—*Symposium*, *Protagoras*, and parts of the *Republic*. 6 s.h.
ASSISTANT PROFESSOR WAY

211-212. Aristophanes.—6 s.h. Dr. ROSE
(Only one of the six courses listed above is offered each year.)

243. Athenian Topography.—The topography and monuments of ancient Athens. 3 s.h. ASSISTANT PROFESSOR WAY

244. Greek Epigraphy.—Lectures on the history of the alphabet and the development of the local Greek alphabets, followed by extensive reading of inscriptional texts in facsimile. 3 s.h. ASSISTANT PROFESSOR WAY

245. Greek Dialects.—A linguistic study of transliterated inscriptions illustrative of the major Greek dialects. The interrelations of the dialectal forms are examined, with reference, where possible, to their origin in pre-ethnic Greek. 3 s.h. ASSISTANT PROFESSOR WAY

246. Greek Historical Inscriptions.—The more valuable historical inscriptions are read in chronological order and interpreted in their general bearing upon the course of Greek history. 3 s.h. ASSISTANT PROFESSOR WAY

247-248. **Greek Archaeology.**—Advanced course in the general field for Seniors and Graduates, comprising architecture, sculpture, vases, and the minor arts. 6 s.h. ASSISTANT PROFESSOR WAY

(Of the courses numbered from 243 to 248, only two semester-courses are offered each year.)

257. **Social and Cultural History of the Hellenistic World from Alexander to Augustus.**—Lectures, readings, and discussion. 3 s.h.

PROFESSOR ROGERS AND DR. TRUESDALE

FOR GRADUATES

The more advanced work of the graduate department is done in the seminar. One author or group of authors forms the center of study each year. Seminars are offered in *Aristophanes* (301-302), *The Greek Historians* (303-304), *The Attic Orators* (305-306), and *The Greek Tragic Poets* (307-308). These run through a cycle of four years. In 1945-46 the work will be:

301-302. **Seminar in Aristophanes.**—6 s.h.

DR. ROSE

Graduate students of Duke University may attend the American School of Classical Studies in Athens, Greece, without charge for tuition, and they are eligible to compete for the fellowships that are offered annually by the School. These consist of two fellowships in Greek archaeology, and one in the language, literature, and history of ancient Greece, each with a stipend of \$1,300. They are awarded mainly on the basis of examinations held in the beginning of February of each year.

LATIN AND ROMAN STUDIES

The program of the Latin Department seeks to provide for two different kinds of student: (a) those who intend to pursue graduate study only to the attainment of the Master of Arts degree, and (b) those who desire to continue research in the field of classical studies and who contemplate working toward the degree of Doctor of Philosophy. Students of the former class should have not less than eighteen semester hours of credit in Latin, over and above the four-year high-school course in Latin or its college equivalent, and an elementary acquaintance with German and French. Students looking to the doctorate should have in addition to the above preparation at least twelve semester hours of credit in Greek and will ordinarily take their minor in Greek. They must have a reading knowledge of German and French. The ability to read Italian will also prove valuable. The Department reserves the privilege of rejecting applications of students who, while meeting these requirements literally, do not in their past records show promise of success in more advanced study.

FOR SENIORS AND GRADUATES

201. **Roman Fiction.**

202. **Latin Christian Writers.**

203-204. **Roman Epic: Ennius, Vergil, Manilius, Lucan, Flaccus, Statius, Silius.**—A study of this literary genre, and its development by Roman writers; extensive reading of the Roman epics. *Not offered if 205-206 is given.* 6 s.h. (E)

205-206. **Roman Drama: Plautus, Terence, Seneca.**—A rapid reading course in which five plays of Plautus, three of Terence, and two of Seneca are studied. 6 s.h. (E)

207-208. Roman Philosophy.

209-210. Vulgar Latin: Introduction to Romance Philology.

211-212. Roman Oratory.—A survey of the history of Roman oratory, centering about the *Brutus* of Cicero and Tacitus' *Dialogus*. 6 s.h.

PROFESSOR ROGERS

215. Introduction to Roman Art and Archaeology.

216. Topography and Monuments of Ancient Rome.

251-252. Roman Life.

258. Social and Cultural History of the Graeco-Roman World.—The Roman Empire as the trustee of Hellenism and Christianity, and its own original contribution to modern civilization; lectures, readings, and discussions. This course continues Greek 257. 3 s.h.

PROFESSOR ROGERS

281-282. Roman Historical Literature.

283-284. Roman Law.—Readings in the original sources with parallel study of modern exposition of the Roman legal system. 6 s.h.

PROFESSOR ROGERS

FOR GRADUATES

309-310. Sight Reading and Composition.—Comprehensive reading in special fields of Roman Literature not included in other courses, with which the writing of Latin will be correlated. 6 s.h.

DR. ROSE

311-312. Latin Epigraphy.—Introduction to Latin epigraphy, with considerable practice in reading short inscriptions, *first semester*; and this is followed by a study of important historical inscriptions including the Monumentum Ancyranum, *second semester*. 6 s.h.

PROFESSOR ROGERS

Seminars: Various authors or historical periods are selected from year to year as a basis for training in criticism and research. Seminars are offered in the following: Catullus (301-302), Roman Historians (331-332), Roman Provincial Administration (341-342), The Reign of Tiberius (343-344), Martial (351-352), Horace (361-362), Lucretius (371-372), and Cicero's Public Career (391-392). The seminar planned for 1945-46 is:

331-332. Roman Historians.—6 s.h.

PROFESSOR ROGERS

LINGUISTICS

FOR GRADUATES

375-376. Greek and Latin Linguistics.—A comparative study of the development of forms and flexions in Greek and Latin. 6 s.h.

DR. ROSE

385-386. Elementary Sanskrit.—An introductory course to the classical language and literature. The linguistic importance of Sanskrit will be stressed, especially with reference to Greek, Latin, and Germanic. 6 s.h.

DR. ROSE

SEMITICS

FOR SENIORS AND GRADUATES

201-202. First Hebrew.—The principles and structure of the Hebrew language, with translations of selected Old Testament narratives. 6 s.h.

205-206. Elementary Arabic.—Introduction to the classical language and literature, with some attention to the modern colloquial idiom. 6 s.h.

[Not offered in 1945-46]

PROFESSOR STINESPRING

207-208. **Second Hebrew.**—Samuel or Kings the first semester; Isaiah the second. 6 s.h. PROFESSOR STINESPRING

FOR GRADUATES

304. **Aramaic.**—A study of the Aramaic portions of the Old Testament and selected passages from the Targums, Midrashes, and Talmuds. 3 s.h. PROFESSOR STINESPRING

305. **Third Hebrew.**—A study of late Hebrew prose, with readings from Chronicles, Ecclesiastes, and the Mishnah. Hours to be arranged. 3 s.h. [Not offered in 1945-46] PROFESSOR STINESPRING

309. **History of the Ancient Near East.**—A survey of the early civilizations of Egypt, Palestine, Syria, and Mesopotamia in the light of Biblical archaeology. 3 s.h. PROFESSOR STINESPRING

315. **Judaism at the Beginning of the Christian Era.**—A study of Judaism from the time of Ben Sirach to the writing of the Mishnah. 3 s.h.

320. **Rabbinic Literature.**—Critical readings in Rabbinic Literature of the early centuries of the Christian Era. 3 s.h.

RELATED COURSES IN OTHER DEPARTMENTS

Philosophy 217. **Philosophy of Aristotle.**—3 s.h. DR. McLARTY
[Not offered in 1945-46]

Religion 217. **The New Testament in Greek.**—Extensive reading of the Greek critical text, with special consideration of variant interpretations. M.W.F. at 9:10. 3 s.h. ASSOCIATE PROFESSOR CLARK

Religion 218. **Galatians and I Corinthians.** A detailed study of two of Paul's major epistles. The course will be based on the Greek text. T.Th.S. at 9:10. 3 s.h. ASSOCIATE PROFESSOR CLARK

Religion 220. **I Peter and the Gospel of John.**—A detailed study of two of the non-Pauline writings of the New Testament. The course will be based on the Greek text. T.Th.S. at 9:10. 3 s.h. ASSOCIATE PROFESSOR CLARK
[Not offered in 1945-46]

Religion 313. **The Apostolic Fathers.**—A study of the Christian development from Clement of Rome to Polycarp, with readings of the Greek text. T.Th.S. at 10:10. 3 s.h. ASSOCIATE PROFESSOR CLARK

Religion 314. **Early Christian Apologists.**—A study of Christian apologetic in the second century, with readings of the Greek text. M.W. at 2:00. 3 s.h. PROFESSOR BRANSCOMB

Religion 316. **Hellenistic Religions at the Beginning of the Christian Era.**—T.Th.S. at 10:10. 3 s.h. ASSOCIATE PROFESSOR CLARK

Religion 318. **Text of New Testament.**—A study of the materials for the reconstruction of the text, the principles of textual criticism, and the history of the text. Practical exercises in the use of manuscripts and facsimiles will be given. T.Th.S. at 12:10. 3 s.h. ASSOCIATE PROFESSOR CLARK
[Not offered in 1945-46]

Under the terms of a co-operative agreement graduate students of Duke University may, with the approval of the chairman of their major department, take any graduate course offered by the Departments of Greek and Latin of the University of North Carolina by the payment of a nominal fee. A list of these courses will be sent upon request.

BOTANY

PROFESSOR BLOMQUIST, CHAIRMAN—203 BIOLOGY BUILDING; PROFESSORS BEAL AND WOLF; ASSOCIATE PROFESSORS ADDOMS, HARRAR, AND KRAMER; ASSISTANT PROFESSORS ANDERSON, OOSTING, AND PERRY

For admission to candidacy for the Master of Arts degree in botany, students must have completed a minimum of at least eighteen semester hours of biological science, of which six semester hours must be in courses in botany of Junior or Senior grade. The botanical work must have been of good quality. As an additional preparatory basis, it is highly desirable that the student shall have had a year of chemistry and a year of physics. Students who have not met these requirements may be admitted provisionally and may carry courses for undergraduate credit, if permission is given by the instructor. A total of twenty-four hours of advanced courses, eighteen of which are in botany and six in the minor department, and a thesis are required for the Master of Arts degree.

FOR SENIORS AND GRADUATES

202. Genetics.—The principles of heredity, their cytological basis, and their bearing on other fields of biology. Laboratory work involves experimental breeding of the fruit fly and interpretation of data from the breeding of plants. Offered in alternate years. Prerequisites: one year of botany, zoology, or equivalent, and college algebra. 4 s.h.

ASSISTANT PROFESSOR PERRY

203. Plant Cytology.—A study of the structure and organization of plant cells in relation to growth, reproduction, and especially heredity. Offered in alternate years. Prerequisite: one year of botany. 4 s.h.

[Not offered in 1945-46]

ASSISTANT PROFESSOR ANDERSON

204. Advanced Plant Anatomy.—The structure of vegetative and reproductive organs of seed plants, including a consideration of seedling anatomy. Special reference is made to plants of economic importance. Offered in alternate years. Prerequisite: Botany 55 or equivalent. 4 s.h.

ASSOCIATE PROFESSOR ADDOMS

216. Botanical Microtechnique.—Studies in methods of preparing temporary and permanent microscopical slides; theory of staining; the use of the microscope, especially microscopical measurements, drawing, and photomicrography, botanical photography, and lantern slides. Prerequisite: two semesters of botany. 4 s.h.

ASSOCIATE PROFESSOR ADDOMS

221. Structure and Classification of Fungi.—Prerequisite: two semesters of botany. 4 s.h.

PROFESSOR WOLF

225-226. Special Problems.—Students with adequate training may do special work in the following fields. Credits to be arranged.

(a) Bacteriology, Mycology, and Plant Pathology. PROFESSOR WOLF

(b) Cytology. ASSISTANT PROFESSOR ANDERSON
[Not offered in 1945-46]

(c) Ecology. ASSISTANT PROFESSOR OOSTING

(d) Genetics. ASSISTANT PROFESSOR PERRY

(e) Morphology and Anatomy of Higher Plants.
ASSOCIATE PROFESSORS ADDOMS AND HARRAR,
ASSISTANT PROFESSOR OOSTING

(f) Morphology and Taxonomy of Lower Groups. PROFESSOR BLOMQUIST

(g) Physiology. ASSOCIATE PROFESSORS ADDOMS AND KRAMER

(h) Plant Microchemistry. ASSOCIATE PROFESSOR ADDOMS

(i) Taxonomy of Higher Groups.

PROFESSOR BLOMQUIST

252. Advanced Plant Physiology.—The physicochemical processes and conditions underlying the physiological processes of plants. Prerequisite: Botany 151 or equivalent; organic chemistry recommended. 4 s.h.

ASSOCIATE PROFESSOR KRAMER

255. Advanced Taxonomy.—A study of the historical background of plant taxonomy, modern concepts and systems of classification, nomenclatorial problems and the taxonomy of specialized groups. Prerequisite: two years of botany, including Botany 52 or equivalent. 4 s.h.

PROFESSOR BLOMQUIST

256. Field Ecology.—An ecological survey of local vegetation, including theory and practice in the use of instruments for precise habitat studies, and analysis of community and successional relationships. Offered in alternate years. Prerequisites: Botany 1, 2 and 52, or equivalent. 4 s.h.

ASSISTANT PROFESSOR OOSTING

FOR GRADUATES

305. Plant Geography.—The distribution and limits of vegetation types with special consideration of the plant communities of North America. Offered in alternate years. Prerequisite: Botany 156 or equivalent. 4 s.h.

ASSISTANT PROFESSOR OOSTING

310. Structure and Classification of Bryophytes and Pteridophytes.—The morphological and systematic characteristics of mosses, liverworts, ferns, and fern allies. Prerequisite: two years of botany. 4 s.h.

PROFESSOR BLOMQUIST

311. Structure and Classification of Algae.—The morphological and ecological characteristics of the common freshwater and marine species and the principles underlying their classification. Collecting, identification, and the making of permanent microscopical preparations. Prerequisite: two years of botany. 4 s.h.

PROFESSOR BLOMQUIST

341. Methods in Plant Physiology.—The theory and use of apparatus and methods in physiological research. 4 s.h.

ASSOCIATE PROFESSOR KRAMER

342. Plant Microchemistry.—The identification and estimation of the constituents of plant cells by the use of microchemical tests. Offered in alternate years. 2 s.h.

ASSOCIATE PROFESSOR ADDOMS

359-360. Research in Botany.—Individual investigations in the various fields of botany. Credits to be arranged.

STAFF

397-398. General Botanical Seminar.—One hour per week throughout the year. Required of all graduates majoring in botany. 2 s.h.

STAFF

FOREST BOTANY

FOR SENIORS AND GRADUATES

224. Forest Pathology.—Special reference to diseases of forest trees. Prerequisites: Botany 1, 2. 3 or 4 s.h.

PROFESSOR WOLF

253. Dendrology.—Nomenclature, classification, and identification of woody plants with special reference to species indigenous to southeastern United States and other important forest regions of temperate North America. Laboratory and field work. Prerequisite: one year of botany. 3 s.h.

PROFESSOR BEAL

RELATED COURSES IN OTHER DEPARTMENTS

These related courses may be counted toward a major in botany.

Forestry 257. Design of Forestry Experiments and Analysis of Data.—5 s.h.

PROFESSOR SCHUMACHER

Zoology 341. Historical and Philosophical Zoology.—2 s.h.

PROFESSOR HARGITT

CHEMISTRY

PROFESSOR GROSS, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—219 CHEMISTRY BUILDING; PROFESSORS BIGELOW, LONDON, VOSBURGH, AND WILSON;
ASSOCIATE PROFESSORS HAUSER AND SAYLOR; ASSISTANT
PROFESSORS BRADSHAW, BROWN, HILL, AND HOBBS

The graduate work in the Department is planned so as to provide a broad basic training in the fields of inorganic, organic, analytical, and physical chemistry. The selection of the research problem for the A.M. or Ph.D. degree determines in which field further specialization takes place.

In the requirements for the Ph.D. degree the most emphasis is placed on the successful completion, under the direction of a member of the Staff, of a research program leading to the solution of an original problem.

FOR SENIORS AND GRADUATES

215-216. Advanced Inorganic Chemistry.—A study of modern theories of valence and molecular structure; also of inorganic compounds, particularly the less common types, the colloidal state of matter, and the phase rule, illustrated by suitable laboratory preparations. Prerequisites: Chemistry 70 and 151-152. Chemistry 261-262, Physics 59-60 or 213-214, and ability to read German are desirable. 6 s.h.

ASSISTANT PROFESSOR HILL AND PROFESSOR VOSBURGH

233-234. Instrumental Analysis.—Experiments in the use of various physical measuring instruments in chemical analysis. One lecture and three laboratory hours. Prerequisites: Chemistry 70 and 261-262; the latter may be taken concurrently. 4 s.h.

ASSISTANT PROFESSOR HOBBS, PROFESSOR VOSBURGH,
AND ASSOCIATE PROFESSOR SAYLOR

236. Theory of Analytical Chemistry.—A study of such topics as precision and errors, theories of precipitation and titration, oxidation and reduction, and others, illustrated by typical analytical methods, including some physicochemical methods. One lecture. Prerequisites: Chemistry 70 and 261-262. 1 s.h.

PROFESSOR VOSBURGH

241. Physiological Chemistry.—A study of the chemistry of human physiology. Clinical aspects of the subject are treated with reference to the need of prospective medical students. Two recitations and six laboratory hours. Prerequisites: Chemistry 70 and 151-152. Course 261-262 is desirable though not required. 4 s.h.

PROFESSOR WILSON

242. Metabolism.—Open to students who have completed course 241 or its equivalent, and who have a reading knowledge of German. Lectures and collateral reading deal with the probable fate of foodstuffs in the body, the nitrogen balance, energy requirement, nutritive ratios, vital factors, and ductless glands. The laboratory work consists mainly of blood analysis under both normal and pathological conditions. The laboratory or lectures may be taken separately. Two lectures, credit 2 s.h., and 6 laboratory hours, credit 2 s.h. 4 s.h.

PROFESSOR WILSON

253-254. Advanced Organic Chemistry.—A continuation of Chemistry 151-152, including discussion of the theories of organic chemistry. The laboratory work will include qualitative organic analysis, together with preparations of the more difficult type, requiring reference to the original literature. Two lectures and three or six laboratory hours. Prerequisites: Chemistry 151-152 or equivalent and a reading knowledge of German. 6 or 8 s.h.

PROFESSOR BIGELOW, ASSOCIATE PROFESSOR HAUSER,
AND ASSISTANT PROFESSOR BROWN

261-262. Physical Chemistry.—Fundamentals of general theoretical chemistry illustrated by selected laboratory experiments. Two recitations and three

laboratory hours. Prerequisites: Chemistry 70, 151-152, Physics 1-2 or equivalent, and Mathematics 51-52. 6 s.h.

PROFESSOR GROSS, ASSOCIATE PROFESSOR SAYLOR,
AND ASSISTANT PROFESSOR HOBBS

265-266. Chemical Physics. Statistical Theory, Principles and Applications.—General introduction to statistical methods and applications to chemical problems; solution theory, reaction velocity, changes of state, quantum statistics and the metallic state. Undergraduates are admitted to this course only by permission of the Director of Undergraduate Studies. Lectures, conferences, and assigned problems. 8 s.h.

PROFESSOR LONDON

267-268. Chemical Physics. Theoretical Aspects of Atomic and Molecular Structure.—Theories of the chemical bond; atomic and molecular forces. Undergraduates are admitted to this course only by permission of the Director of Undergraduate Studies. Lectures, conferences, and assigned problems. 8 s.h.

PROFESSOR LONDON

271. Introduction to Research.—Lectures on the use of chemical literature, research methods, recording and publication of results, preparation of theses, and other topics. One lecture. 1 s.h.

PROFESSORS BIGELOW, GROSS, AND VOSBURGH

273-274. Seminar.—Required of all graduate students in chemistry. One hour a week discussion. 2 s.h.

PROFESSORS BIGELOW, GROSS, AND VOSBURGH; ASSOCIATE PROFESSORS
HAUSER AND SAYLOR; ASSISTANT PROFESSORS BRADSHER,
BROWN, HILL, AND HOBBS

275-276. Research.—The aim of this course is to give instruction in methods used in the investigation of original problems. It is open to Seniors who have had courses 70, 151-152, and who are taking 261-262. Nine hours a week and conferences. 3 or 6 s.h.

PROFESSORS BIGELOW, GROSS, LONDON, AND VOSBURGH; ASSOCIATE
PROFESSORS HAUSER AND SAYLOR; ASSISTANT PROFESSORS
BRADSHER, BROWN, HILL, AND HOBBS

FOR GRADUATES

303. Thermodynamics.—Fundamental laws of thermodynamics and their applications to chemistry and physics. Offered jointly by the Departments of Chemistry and Physics. 3 s.h.

PROFESSOR LONDON

304. Chemical Thermodynamics.—A continuation of course 303 with emphasis on applications to chemical problems. The topics considered include chemical equilibrium, theory of solutions, reaction kinetics and dipole theory. 3 s.h.

PROFESSORS LONDON AND VOSBURGH; ASSOCIATE PROFESSOR
SAYLOR; ASSISTANT PROFESSOR HILL

351-352. Advanced Synthetic Organic Chemistry.—Recent advances in certain selected fields, such as medicinals, dyes, perfumes, terpenes, and alkaloids, will be discussed. The emphasis will be placed on structure studies and synthetic methods. Lecture or seminar one hour each week. 2 s.h.

PROFESSOR BIGELOW AND ASSOCIATE PROFESSOR HAUSER

363-364. Advanced Physical Chemistry.—A discussion of recent advances in particular fields such as reaction kinetics and catalysis, solutions, molecular forces and molecular structure. Prerequisites: Chemistry 261-262 or its equivalent and calculus. 6 s.h.

PROFESSORS GROSS AND VOSBURGH; ASSOCIATE PROFESSOR SAYLOR;
ASSISTANT PROFESSORS HILL AND HOBBS

**RELATED COURSES IN OTHER DEPARTMENTS
BIOCHEMISTRY**

M241. General Biochemistry.—Prerequisites: general chemistry, organic chemistry, elementary physical and analytical chemistry, and at least one year of college biology. February-June, 1945. 6 s.h.

DRS. PERLZWEIG AND TAYLOR, AND STAFF

M242. Biochemical Preparations.—Prerequisite: Biochemistry M241. *Hours by arrangement.* 2 s.h.

DR. TAYLOR AND STAFF

M243-244. Physical Chemical and Colloid Chemical Principles of Biochemistry.—Two hours per week throughout the year.

DR. NEURATH

M341. Pathological Chemistry.—Two hours per week by arrangement. Prerequisites: Biochemistry M241 and Physiology M261-2.

DRS. PERLZWEIG, TAYLOR, AND M. L. C. BERNHEIM

M343. Immunochemistry.—2 s.h.

DRS. MARTIN AND NEURATH

M363-364. Advanced Seminar in Nutrition.—Prerequisites: Biochemistry M241 and Physiology M261 or equivalents. Two hours weekly. 4 s.h.

DR. DANN

ECONOMICS

PROFESSOR HOOVER, CHAIRMAN—103 ADMINISTRATION BUILDING; PROFESSOR SPENGLER, DIRECTOR OF GRADUATE STUDIES—105 RELIGION; PROFESSORS BLACK, DE VYVER, RATCHFORD, AND VON BECKERATH; ASSOCIATE PROFESSOR LESTER; ASSISTANT PROFESSORS SMITH, SPRINGER, AND WELFLING

A student who proposes to major in economics in his graduate work should have completed in his undergraduate program twelve semester hours of course credit in economics with a grade of "B" or better. At least five semester hours or the equivalent should represent work in Principles of Economics. In the event of a deficiency in his undergraduate preparation, the student may arrange with the Director of Graduate Studies to remove the deficiency during his first year of residence by taking prescribed courses without graduate credit.

FOR SENIORS AND GRADUATES

215. Economic Systems.—A study of alternative economic systems. In addition to an analysis of communism, anarchism, and the variants of socialism, the course will include a consideration of other proposed modifications of the existing economic order. Credit for this course will be given only if the student takes Economics 216. 3 s.h.

PROFESSOR HOOVER

216. Economic Functions of the State.—A consideration of the primary and secondary economic functions of government and of the legislation which provides for the performance of these functions, such as social legislation and regulation of commerce and industry. Prerequisite: Economics 215 or its equivalent. 3 s.h.

PROFESSOR HOOVER

217. Population Problems and Resources.—A critical survey of the economic laws of returns and of pre- and post-Malthusian population theory; consideration of the relation between natural increase and the laws of economic distribution and of the effects of changes in the rate of natural increase upon various classes of industry and upon employment; examination of the factors which govern population growth and of current population trends; analysis of international economic, and political problems which are founded upon population pressure; consideration of the economic and the biological aspects of differential birth rates. 3 s.h.

PROFESSOR SPENGLER

218. Business Cycles.—Description and analysis of the causes and consequences of economic rhythms and movements of various lengths (e.g., seasonal, cyclical, long-period, etc.). Analysis of methods proposed as means of curtailing such movements, or of mitigating their effects. 3 s.h.

ASSOCIATE PROFESSOR LESTER

230. Public Debts in the United States.—A study of the characteristics of public credit as shown by the experience of national, state, and local governments in the United States. Topics considered include: forms, methods, and purposes of borrowing; effects of the contraction and repayment of debts on governmental fiscal policies, the banking and credit system, and business activity; methods of controlling or limiting debts; refunding and adjustment procedures; defaults and repudiations. 3 s.h.

PROFESSOR RATCHFORD

231. The Economic History of Modern Europe.—A study of the economic development of Europe, since the sixteenth century to the present, treating such topics as the guilds, mercantilism, money, banking, crises, the Industrial Revolution, the interrelationships of government and business, and the economic consequences of war. The historical backgrounds of present economic problems will be emphasized. 3 s.h.

ASSISTANT PROFESSOR SMITH

233. State and Local Finance.—A study of expenditures, taxation, and financial administration in state and local governments with emphasis on current problems. Special attention will be given to research methods and materials and to the financial relations between state and local governments. 3 s.h.

PROFESSOR RATCHFORD

234. Federal Finance.—A study of the expenditures, revenues, and financial administration of the government of the United States, with emphasis on current problems. Special attention given to budgetary procedure, corporate and individual income taxes, and the financial relations between federal and state governments. 3 s.h.

PROFESSOR RATCHFORD

237-238. Statistical Methods.—A study of statistical methods appropriate for dealing with problems in business and the social sciences. In addition to developing more thoroughly the subjects considered in *Business Statistics*, the following methods will be considered: simple, multiple, partial, and curvilinear correlation; curve fitting; probability; frequency distributions; and reliability of estimates. Prerequisite: Economics 138 or consent of the instructor. 6 s.h.

ASSISTANT PROFESSOR SMITH

241-242. Value and Distribution.—This course is a critical survey of the leading contemporary explanations of price formation and of the determination of interest, rent, wages, and profits. 6 s.h.

PROFESSOR SPENGLER

245. Problems of Modern Industrialism.—This course first surveys technological efficiency and market organization as limiting factors in the determination by industrial management of the rational requirements of plant organization. External political and social forces are then introduced into the complex to show modern industrialism as a phase of mature capitalism. Against the background of modern capitalism, the issue and trends of public policy with respect to economic organization in America and Europe are compared and appraised, with special emphasis on the problems of industrial demobilization and on industrial reconstruction after the war. 3 s.h.

PROFESSOR VON BECKERATH

256. Labor Legislation.—A study of the relations of the state to labor problems with special reference to remedial legislation, to interference in labor disputes, and to social insurance. 3 s.h.

PROFESSOR DE VYVER

260. Social Insurance.—A consideration of the economic and social problems involved in workmen's compensation laws, unemployment insurance, old-age pension, and health insurance for workers. Particular attention will be given to the present federal and state social security legislation. 3 s.h.

PROFESSOR DE VYVER

265. International Trade and Finance.—A study of the fundamental principles of international trade and foreign exchange. Subjects covered will include international specialization, balance of payments, foreign investments, tariffs and commercial policies, exchange control, exchange rates, and international monetary problems. 3 s.h.

PROFESSOR VON BECKERATH AND
ASSOCIATE PROFESSOR LESTER

268. Competitive versus Monopolistic Enterprise.—(1) Competition as an economic order; (2) competition as a political order; (3) monopoly as a disturbance of (1) and of (2). (4) What can government do for the maintenance of the competitive order? (5) What can the judiciary do for the maintenance of the competitive order? (6) What can business do for the maintenance of the competitive order? (7) Limits and difficulties of a liberal solution. (8) The effects of war on competition and private enterprise. (9) The role of large-scale industry and small-scale industry in the social economy after the war. Comparison of American, English, and Continental European viewpoints. 3 s.h.

PROFESSOR VON BECKERATH

275-276. Advanced Industrial Accounting and Management.—This course traces the ways and means of executive control through statistics and industrial accountancy. Emphasis is put upon the economics of overhead costs. A complete practice set of cost accounting is worked by each student during the course. Courses 57-58 and 105 are ordinarily prerequisites for this course. 5 s.h.

PROFESSOR BLACK

FOR GRADUATES

311-312. History of Political Economy.—This course traces the development of economic theory, giving special attention to the various schools of economic thought in England, France, Germany, Italy, and the United States. A large amount of collateral reading in the works of typical authors is required. Lectures and class discussions. 6 s.h.

PROFESSOR SPENGLER

313-314. Seminar in Economic Theory.—The course consists of directed research in economic theory. The primary purpose is the correction of authoritative eclecticism and its replacement by individually integrated theory. Prerequisite: Economics 241-242 or its equivalent. 6 s.h.

PROFESSOR HOOVER

318. General Seminar in Economics.—All graduate students with economics as a major subject are members of this seminar. Reports of progress in research will be made, and there will be lectures and critical discussion by members of the Department. Year course. No credit.

STAFF

RELATED COURSES IN OTHER DEPARTMENTS

Attention is called to the following courses in related departments:

Forestry 279. Economics of Forestry.—3 s.h. PROFESSOR WACKERMAN

History 219-220. The History of the European Proletariat.—6 s.h.

[Not offered in 1945-46] PROFESSOR CARROLL

Political Science 207. American Constitutional Law and Theory.—3 s.h.

PROFESSOR WILSON

EDUCATION

PROFESSOR HOLTON, CHAIRMAN—104 PAGE AUDITORIUM; PROFESSOR BROWNELL, DIRECTOR OF GRADUATE STUDIES—1C WEST DUKE BUILDING; PROFESSORS CARR, CHILDS, AND PROCTOR; ASSOCIATE PROFESSOR SCATES; ASSISTANT PROFESSOR EASLEY; VISITING ASSISTANT PROFESSOR VAN ALSTYNE

The Department offers a full major of work in educational psychology toward the degree of Doctor of Philosophy, with approved minors in as many as two of the divisions listed for the Master's degree, and an approved minor in psychology or in some other department offering work closely related to the thesis problem of the candidate. It is planned to offer complete majors in other divisions as rapidly as the growth of the Department justifies.

The Department offers work toward the Master of Arts and Master of Education degrees, and minor work toward the Doctor of Philosophy degree, in the divisions of elementary education, experimental education and educational psychology, history and philosophy of education, public school administration, and secondary education and educational sociology. It is important for students who are degree candidates to choose their course according to some unified plan; they are reminded that mere accumulation of more or less unrelated courses in various divisions with minor work in some department only remotely related to the student's major work does not lead to a graduate degree. Every candidate for a Master's degree should elect at least six, and preferably twelve, semester hours of course work in the special division in which he intends to write his thesis. Students who expect to write theses in the history of education are required to take their minor work in American history. Students writing in school administration are advised to elect minor work in economics and political science. Students in educational psychology should elect their minor work in psychology. No student, except by special approval of the Department and of the Graduate School, is permitted to take minor work in more than one department or to the amount of more than six semester hours.

Candidates for the M.Ed. degree are required to take the four basic courses Education 300, 304, 305, and 317. Besides earning credit in these courses in the usual way, they must also, toward the end of their residence and with the approval of the Director of Graduate Studies, take a comprehensive examination on the content and interrelationships among these courses. Exceptions are allowed (1) in the case of students who can by examination demonstrate satisfactory knowledge of not more than two of these courses and (2) in the case of students who write M.Ed. theses. (See page 30 of this *Bulletin*.)

For admission to candidacy for the Master of Arts (A.M.) degree with major in Education, or for the Master of Education (M.Ed.) degree, students must, in addition to meeting the general requirements for admission to the Graduate School, meet the following specific requirements (1) eighteen semester hours of acceptable prior work in Education; (2) twelve semester hours of acceptable prior work in a minor field (exception: if psychology or sociology is offered for the minor, six semester hours of work completed after entering the junior year in college will be accepted). In addition, to be accepted as candidates for the degree of M.Ed., whether with thesis or without, students must (3) make an acceptable score on a test of general ability and (4) show by examination that they are able to write good English.

ELEMENTARY EDUCATION

FOR SENIORS AND GRADUATES

207. Technique of Teaching.—An advanced course in the teaching process, dealing with the theory underlying sound technique and applied specifically to the work of the elementary school. 3 s.h. (ε) PROFESSOR CARR
[Not offered in 1945-46]

212. Psychology of the Elementary School Subjects.—A study of the psychology of learning as applied to teaching the common school subjects. First semester. 3 s.h. (E) PROFESSOR CARR

222. The Curriculum and Materials of the Elementary Grades.—A study of curriculum problems in the elementary schools. 3 s.h. (E) PROFESSOR CARR

232. Elementary School Supervision.—A survey of supervision as a means of improving instruction and adapting the curriculum to child and community needs. 3 s.h. (E) PROFESSOR CARR

FOR GRADUATES

305. The Nature, Function, and Reorganization of the Curriculum.—One of the required courses for the Master of Education degree. Selected problems guiding the reading of students. Second semester. 3 s.h.

PROFESSOR CARR

EXPERIMENTAL EDUCATION AND EDUCATIONAL PSYCHOLOGY

FOR SENIORS AND GRADUATES

208A. Mental Tests and Applications.—A study of the development of intelligence testing, the concept of general intelligence, various recent applications of mental tests, and training in the giving of individual tests. Prerequisite: course 258 or six semester hours of other work in educational psychology or psychology. First semester. 3 s.h. (E) ASSISTANT PROFESSOR VAN ALSTYNE

208B. Practicum.—Open only to students approved by the instructor. Second semester. 2 s.h. (E) ASSISTANT PROFESSOR VAN ALSTYNE

209. Statistical Methods Applied to Education.—A study of statistical methods of treating educational and social data designed to enable teachers or administrators to interpret and use the results of scientific investigations in education. 3 s.h. (E) ASSOCIATE PROFESSOR SCATES

216. Psychological Principles of Secondary Education.—A study of adolescence and the psychology of learning as applied to teaching the principal high-school subjects. 3 s.h. (E) PROFESSOR CHILDS

218. Educational Implications of Genetic Psychology.—A study of the development of the individual through the stages of growth and learning, with emphasis upon early and later childhood; the development of such behavior patterns as play, language, etc.; the process of socialization, etc. Prerequisite: six semester hours of psychology or educational psychology. 3 s.h. (E)

[Not offered in 1945-46]

PROFESSOR BROWNELL

219. Experimental Education.—This course is designed to provide training (1) in planning, (2) in prosecuting, and (3) in reporting quantitative investigations in the field of education, more especially in the field of learning and teaching the various school subjects. 3 s.h. (E) PROFESSOR BROWNELL

227. The Psychology of Learning: Problems.—The major problems related to the learning process will be examined, with the experimental literature bearing on them. The curves of learning and forgetting, the distribution of practice, economical methods of learning, and the transfer of training will be the major topics considered. 3 s.h. (E) ASSISTANT PROFESSOR EASLEY

[Not offered in 1945-46]

228. The Psychology of Learning: Theoretical and Experimental.—In this semester the laws of learning, the most important explanatory principles, and the major systems of psychology of learning will be considered. Class experiments will run throughout the semester. Prerequisite: course 227 or its equivalent. 3 s.h. (E) ASSISTANT PROFESSOR EASLEY

[Not offered in 1945-46]

237. Investigations in Reading.—A summary of the results of the more important scientific studies in reading; interpretation of the results in terms of aims, methods, materials of instruction, testing, diagnosis, and supervision; emphasis on problems requiring further investigation. 3 s.h. (E)

PROFESSOR CARR

247. Investigations in Arithmetic.—An analytical survey of investigations in arithmetic, with three purposes in view: (1) to examine the techniques employed with respect to their adequacy as means of solving the problems attacked; (2) to test the validity of the results announced and the values of these results for the teaching of arithmetic; (3) to locate further problems in arithmetic in need of scientific research. Second semester. 3 s.h. (E)

PROFESSOR BROWNELL

258. Educational Measurements.—A critical study of the principles and techniques involved in measurement in education, with opportunity for individual research. Prerequisite: twelve semester hours in the Department, including a course in educational psychology. 3 s.h. (E)

ASSOCIATE PROFESSOR SCATES

FOR GRADUATES

307-308. Seminar in Educational Psychology.—Required of graduate students in educational psychology. 4 s.h. (E)

PROFESSOR BROWNELL

[Not offered in 1945-46]

309-310. Research in Educational Psychology.—This course provides opportunity for more advanced graduate students to engage in individual research projects under close supervision. Credit allowed proportionate to achievement and time devoted to the course. Enrollment by permission of instructor only. 3 to 6 s.h. (E)

PROFESSOR BROWNELL

317. The Psychological Principles of Education.—An advanced study of teaching, learning, and the learner. This is one of the courses required for the Master of Education degree. Selected problems guiding the reading of students will be discussed in class. 3 s.h.

PROFESSOR BROWNELL

320. Advanced Educational Statistics.—This course continues the work begun in Education 209, dealing particularly with further methods of correlation and with various applications to the theory of measurement. The course does not require a background of mathematics beyond high-school algebra. 3 s.h.

ASSOCIATE PROFESSOR SCATES

338. Research in Reading.—A course designed for students who have original problems in reading which they desire to investigate. Such studies may be either individual or co-operative. Education 237 is advised as a preliminary course, but is not required. 3 s.h.

PROFESSOR CARR

[Not offered in 1945-46]

339. Research Course in Educational Tests.—A study of problems in the construction and interpretation of tests. Prerequisite: the equivalent of course 258. 3 s.h.

ASSOCIATE PROFESSOR SCATES

[Not offered in 1945-46]

348. Research in Arithmetic.—A course designed for students who have original problems in arithmetic which they desire to investigate. Such studies may be either individual or co-operative. Education 247 is advised as a preliminary course, but is not required. 3 s.h.

PROFESSOR BROWNELL

[Not offered in 1945-46]

HISTORY AND PHILOSOPHY OF EDUCATION

FOR SENIORS AND GRADUATES

200. **Introduction to the Philosophy of Education.**—A consideration of fundamental concepts underlying educational theory. 3 s.h. PROFESSOR HOLTON

214. **History of Education in the United States.**—A study of the development of the American public school and the interaction of higher education and the public school. 3 s.h. PROFESSOR HOLTON

[Not offered in 1945-46]

244. **Studies in the Historical Development of Public School Administration.**—An advanced course devoted to the development of public school administration in the South, with especial reference to North Carolina as a type. 3 s.h. PROFESSOR HOLTON

[Not offered in 1945-46]

254. **History of Secondary Education in the United States.**—A study of historical and comparative conceptions of the secondary school, changes in American life affecting the secondary school, present status of the secondary school, current tendencies toward expansion, and the problem of state and federal aid. 3 s.h. PROFESSOR PROCTOR

[Not offered in 1945-46]

264. **Recent Movements in American Education.**—An intensive study of educational thought and practice since 1900. 3 s.h. PROFESSOR HOLTON

[Not offered in 1945-46]

294. **Comparative Education: Recent Movements in European Educational Systems.**—A comparative study of the school systems of the principal countries of Europe, with emphasis upon changes since the World War. 3 s.h. PROFESSOR CARR

[Not offered in 1945-46]

304. **The School as an Institution.**—The place of the school in society, its history and philosophy. This is one of the courses required for the Master of Education degree. Selected problems guiding the reading of students will be discussed in class. 3 s.h. PROFESSOR HOLTON

PUBLIC SCHOOL ADMINISTRATION

FOR SENIORS AND GRADUATES

203. **Principles of School Administration.**—The fundamental facts and procedures of school administration, an analysis of the problems and policies of the organization and direction of a local school system, and the functions of the various school officials. Prerequisite: Education 103 and 58, or six semester hours of equivalent work in education. Second semester. 3 s.h. PROFESSOR PROCTOR

213. **Problems in the Organization and Administration of the Elementary School.**—A study of the work of the elementary school principal. 3 s.h. PROFESSOR PROCTOR

[Not offered in 1945-46]

233. **Administrative Pupil-Accounting.**—An advanced study of gradation and classification of pupils, with incidental attention to the keeping of records and the making of reports. The study includes a consideration of individual differences, promotions, acceleration, and retardation of pupils; the various plans for classification and gradation; interpreting the results of tests, and some practice in the computation of statistical measures. Second semester. 3 s.h. PROFESSOR PROCTOR

234. **Secondary School Organization and Administration.**—A study of the outstanding problems of secondary school organization and administration other than the problem of gradation and classification of pupils. First semester. 3 s.h. PROFESSOR PROCTOR

253. Legal Phases of School Administration.—A study of judicial decisions and the development of outstanding features of statute law controlling school administration, with special emphasis upon North Carolina materials. 3 s.h. PROFESSOR HOLTON

[Not offered in 1945-46]

FOR GRADUATES

323. Public School Finance.—A study of educational costs, sources of revenue for the support of public education, collection of revenue, basis of distribution, and accounting for funds spent. 3 s.h. PROFESSOR PROCTOR

343. State and County School Administration.—A study of state and county organization of public schools, emphasizing underlying principles. Second semester. 3 s.h. PROFESSOR PROCTOR

363. City School Administration.—A study of the organization and administration of city school systems, including administrative phases of supervision. 3 s.h. PROFESSOR PROCTOR

[Not offered in 1945-46]

SECONDARY EDUCATION AND EDUCATIONAL SOCIOLOGY

FOR SENIORS AND GRADUATES

205. Curriculum Problems in Secondary Education.—A consideration of the aims and objectives of secondary school subjects, emphasizing practical problems of curriculum-making in the high school. 3 s.h. PROFESSOR CHILDS
[Not offered in 1945-46]

206. Sociological Foundations of the Secondary School Subjects.—A consideration of the aims and objectives of the secondary school. Prerequisites: six semester hours in education, including course 105. First semester. 3 s.h. (E) PROFESSOR CHILDS

215. Educational and Vocational Guidance.—A survey of the literature on guidance with special reference to secondary education; a critical study of the principles and techniques used in guidance; an attempt to locate the problems most urgently in need of solution. Prerequisite: twelve semester hours in the Department, including course 105 or course 206. Second semester. 3 s.h. (E) PROFESSOR CHILDS
[Not offered in 1945-46]

225. The Teaching of History and the Social Studies.—Identical with History 211. The course counts as an elective in the Department of Education only when approved by the Department and the instructor. 3 s.h. ASSOCIATE PROFESSOR MANCHESTER
[Not offered in 1945-46]

246. The Teaching of Mathematics.—Identical with Mathematics 204. The course counts as an elective in the Department of Education only when approved by the Department and the instructor. 3 s.h. (E) PROFESSOR RANKIN
[Not offered unless justified by enrollment]

266. The Teaching of High-School French.—Identical with French 218. First semester. 3 s.h. PROFESSOR WEBB

METHODOLOGY OF RESEARCH

FOR GRADUATES

300. Methods of Educational Research: Seminar.—Graduate students are instructed in methods of research as applied to selected educational problems. This is one of the courses required for the Master of Education degree. Each student must select for intensive study and practice a subject in which he is interested. 3 s.h. MEMBERS OF THE DEPARTMENT

RELATED COURSES IN OTHER DEPARTMENTS

FOR MAJORS IN EDUCATIONAL PSYCHOLOGY, ELEMENTARY EDUCATION,
AND SECONDARY EDUCATION

- Psychology 206. Social Psychology.—3 s.h.
ASSOCIATE PROFESSOR ADAMS AND DR. KOCH
- Psychology 207. Psychology of Memory, Thinking, Perceiving.—Second semester. 3 s.h.
PROFESSOR ZENER
- Psychology 209. Experimental Methods in Human Psychology.—4 s.h.
PROFESSOR ZENER
- Psychology 212. Physiological Psychology.—3 s.h.
[Not offered in 1945-46] ASSISTANT PROFESSOR KEMP
- Psychology 215. Developmental Psychology.—3 s.h.
[Not offered in 1945-46] ASSOCIATE PROFESSOR ADAMS
- Psychology 226. Contemporary Schools of Psychology.—3 s.h.
PROFESSOR ZENER
- Psychology 306. Seminar in Child Psychology.—2 or 3 s.h.
[Not offered in 1945-46] ASSOCIATE PROFESSOR ADAMS
- Psychology 309. Theory of Learning.—3 s.h.
[Not offered in 1945-46] ASSOCIATE PROFESSOR ADAMS
- Sociology 212. Child Welfare.—3 s.h.
PROFESSOR JENSEN
- Sociology 213. Constructive Social Policies.—2 s.h.
[Not offered in 1945-46] PROFESSOR JENSEN
- Sociology 319. Principles of Sociology.—3 s.h.
[Not offered in 1945-46] PROFESSOR JENSEN
- Sociology 320. History of Sociological Theory.—3 s.h. PROFESSOR JENSEN

FOR MAJORS IN PUBLIC SCHOOL ADMINISTRATION

- Economics 230. Public Debts in the United States.—3 s.h.
PROFESSOR RATCHFORD
- Political Science 209. State and Local Government in the United States.—3 s.h.
PROFESSOR RANKIN
- Political Science 291. Municipal Government.—3 s.h. PROFESSOR RANKIN
- Sociology 213. Constructive Social Policies.—2 s.h.
[Not offered in 1945-46] PROFESSOR JENSEN

FOR MAJORS IN HISTORY AND PHILOSOPHY OF EDUCATION

- History 209-210. Constitutional History of the United States, 1763-1860.—6 s.h.
[Not offered in 1945-46] ASSISTANT PROFESSOR STILL
- Philosophy 205. The Philosophy of History.—3 s.h.
[Not offered in 1945-46] PROFESSOR WIDGERY
- Philosophy 208. Political Philosophy.—3 s.h.
[Not offered in 1945-46] ASSOCIATE PROFESSOR MORGAN
- Philosophy 223. Contemporary Philosophy.—Second semester. 3 s.h.
PROFESSOR WIDGERY
- Religion 393. Religious Thought in Colonial America.—3 s.h.
PROFESSOR SMITH

Religion 394. Religious Thought in Modern America.—3 s.h.

PROFESSOR SMITH

Sociology 319. Principles of Sociology.—3 s.h.
[Not offered in 1945-46]

PROFESSOR JENSEN

Sociology 320. History of Sociological Theory.—3 s.h. PROFESSOR JENSEN

ENGLISH

PROFESSOR WHITE, CHAIRMAN—2G5 WEST DUKE BUILDING; PROFESSOR HUBBELL, DIRECTOR OF GRADUATE STUDIES—105 EAST DUKE BUILDING; PROFESSORS BAUM, GILBERT, GOHDES, AND IRVING; ASSOCIATE PROFESSOR WARD; ASSISTANT PROFESSORS LEARY AND TALBERT

All graduate students in English must pass a qualifying examination before they will be admitted to candidacy for a degree. This examination is given at the beginning of the autumn semester and must be taken at that time by all new students. Those who do not pass will not be accepted as candidates for a degree during the year in which they fail, but they may take the examination offered to graduate students entering at the opening of the first term of the following Summer Session.

Candidates for the degree of Master of Arts are required to elect 203-204 (3 or 6 s.h.). They will also elect one of the period courses (209 and 210, 215-216, 219-220, 221-222, 223-224, 229-230, 233-234) and its corresponding seminar (349); and 12 (or 9) additional semester hours.

If a number of students desire to take a course marked "Not offered in 1945-46," the Department will arrange, if practicable, to have the course taught during that session.

201-202. **Anglo-Saxon.**—In the first semester, an introduction to the language, with the reading of selected prose and of some of the shorter poems; in the second semester, the *Beowulf*. 6 s.h. (E) PROFESSOR BAUM
[Not offered in 1945-46]

203-204. **Chaucer.**—Reading and interpretation of the text; in the first semester, the principal *Canterbury Tales*; in the second, the *Troilus* and the minor poems. A reading report and a term paper. 6 s.h. (E)

PROFESSOR BAUM

205-206. **Middle English.**—Close study of selected texts, with attention to the development of the language and to the history of the literature from 1200 to 1400. A term paper each semester. 6 s.h. (E)

PROFESSOR BAUM

207-208. **English Literature, 1400-1550.**—A survey of the period, with a study of some of the special problems. 6 s.h. (E)
[Not offered in 1945-46]

PROFESSOR BAUM

209. **English Literature Other than Drama, 1550-1625.**—A study of the principal authors (Sidney, Spenser, Donne, Bacon) and the prevailing types (sonnet, pastoral, epigram, etc.). Lectures, written and oral reports, and a term paper. 3 s.h. (E)

PROFESSOR GILBERT

210. **English Literature Other than Drama, 1625-1700.**—The Metaphysical Poets, Cowley, Dryden, Butler, and the minor poets of the Restoration; and the prose of Browne, Burton, the Character Writers, Cowley, Dryden, Halifax, and Temple. Lectures and short reports. 3 s.h. (E)

ASSOCIATE PROFESSOR WARD

215-216. **Elizabethan Drama.**—Careful study of one or two major dramatists (Jonson or Beaumont and Fletcher) and extensive reading in the other writers (Heywood, Ford, Massinger, Marlowe, Middleton) with emphasis on the nature and qualities of their work in relation to its historical background. Exposition of plays, reports, and a term paper each semester. 6 s.h. (E)

PROFESSOR GILBERT AND ASSISTANT PROFESSOR TALBERT

219-220. The Eighteenth Century.—Swift, Pope, Defoe, Addison, Steele, and others are studied in the first semester; in the second, Gray, Johnson, Boswell, Goldsmith, the letter writers, and the early Romantic poets. Lectures, oral reports, and a term paper each semester. 6 s.h. (E)

PROFESSOR IRVING

221-222. English Literature of the Early Nineteenth Century.—A survey of the principal writers and literary monuments from 1798 to 1830; in the first semester, principally Wordsworth, Coleridge, and Lamb; in the second, Shelley, Byron, Keats, and Hazlitt. Occasional lectures, frequent classroom discussions of reading assignments, written and oral reports, and a term paper each semester. 6 s.h. (E)

PROFESSOR WHITE

223-224. English Literature of the Later Nineteenth Century.—Some of the most important works of the period are discussed in class; the background is filled in by lectures and assigned reading. The first semester is devoted chiefly to Carlyle, Dickens, Thackeray, Tennyson, and Browning; the second semester to Arnold, Ruskin, Pater, George Eliot, Meredith, the Pre-Raphaelites, and Swinburne. A term paper each semester. 6 s.h. (E) [In 1945-46 only 224 is offered]

PROFESSOR BAUM

227. Literary Criticism.—A study of the Greek and Roman critics, in chronological order but with emphasis on their permanent value rather than on the mere history; also of the Continental and English critics to about 1700. Lectures, reports, and a term paper. 3 s.h. (E)

PROFESSOR GILBERT

[The course may be offered in either semester.]

229-230. American Literature, 1800-1870.—The writers emphasized in the first semester are Emerson, Thoreau, and Hawthorne; in the second semester, Poe and Melville. In the first semester some attention is given also to Edwards, Franklin, Bryant, Longfellow, Holmes, Whittier, Lowell, and Parkman; and in the second semester, to Byrd, Jefferson, Paine, Freneau, Brown, Irving, Cooper, Kennedy, Simms, Timrod, and Lincoln. An oral report and a term paper each semester. 6 s.h. (E)

PROFESSOR HUBBELL

231-232. Special Studies in American Literature.—An intensive study of Emerson's essays and poems in the first semester; and in the second, of Whitman's *Leaves of Grass*, with some examples of his prose. Lectures and discussions, with one test and one term paper each semester. 6 s.h. (E)

PROFESSOR GOHDES

[In 1945-46 only 232 (Whitman) will be offered; it will be given in the first semester.]

233-234. American Literature since 1870.—Selected works of the chief writers of the period, including Whitman, Lanier, Mark Twain, James, Howells, Emily Dickinson, Crane, Dreiser, and others. The lectures deal with the social background and with the careers of the leading authors. One test and one term paper each semester. 6 s.h. (E)

PROFESSOR GOHDES

237. English Drama, 1642-1800.—The Heroic Play and the Comedy of Manners of the Restoration period; and the important plays, serious and comic, of the eighteenth century. Lectures, class discussions, and short reports. 3 s.h. (E)

ASSOCIATE PROFESSOR WARD

247-248. American Literature of the Colonial Period.—6 s.h.

[Not offered in 1945-46]

ASSISTANT PROFESSOR LEARY

269. Southern Literature to 1865.—The principal writers discussed are Byrd, Jefferson, Wirt, Kennedy, the Cooke brothers, Legaré, Simms, Timrod, Hayne, Longstreet and other humorists, and the poets of the Civil War. Considerable attention is paid to the historical and cultural background and to Northern and British authors who wrote about the South. An oral report and a term paper. 3 s.h. (E)

PROFESSOR HUBBELL

[Not offered in 1945-46]

FOR GRADUATES

349. Seminar Courses.—Special study of a single author, with an introduction to bibliography and methods of research. The instructor may substitute other important authors of the period for those listed below. One of these courses is required of all candidates for the degree of Master of Arts. 3 s.h. (E)

(a) Shakespeare.	ASSISTANT PROFESSOR TALBERT
(b) Milton, or Spenser.	PROFESSOR GILBERT
(c) Dryden.	ASSOCIATE PROFESSOR WARD
(d) Pope, or Johnson.	PROFESSOR IRVING
(e) Shelley, or Wordsworth, or Byron.	PROFESSOR WHITE
(f) Arnold, or Tennyson.	PROFESSOR BAUM
(g) Poe, or Hawthorne.	PROFESSOR HUBBELL
(h) Emerson, or Whitman.	PROFESSOR GOHDES

In 1945-46 four of these courses will be given, two in the autumn semester and two in the spring.

359-360. Research courses.—Opportunity for advanced study; intended specially for candidates for the Ph.D. degree. 3 or 6 s.h. (E)

(a) The Early Language and Literature.	PROFESSOR BAUM
(b) Elizabethan Literature.	PROFESSOR GILBERT
(c) The Seventeenth Century.	PROFESSOR GILBERT AND ASSOCIATE PROFESSOR WARD
(d) The Eighteenth Century.	PROFESSOR IRVING
(e) The Early Nineteenth Century.	PROFESSOR WHITE
(f) The Later Nineteenth Century.	PROFESSOR BAUM
(g) American Literature to 1870.	PROFESSOR HUBBELL
(h) American Literature since 1870.	PROFESSOR GOHDES

400. Special Studies.—Research or special study, under supervision, may be arranged for Ph.D. candidates whose needs are not otherwise met. This course is given in any semester when authorized by the Director of Graduate Studies and the Dean of the Graduate School. A brief report on the type of work done under supervision must be filed by the professor in charge in order for credit to be given by the Graduate Office. Hours and credits to be arranged.

MEMBERS OF THE GRADUATE STAFF

RELATED COURSES IN OTHER DEPARTMENTS

The attention of students in English is directed to the following courses:

German 301-302. Gothic-Middle High German.—6 s.h. PROFESSOR VOLLMER

Greek 201-202. Greek Tragedy.—6 s.h. DR. ROSE

History 221-222. The Age of the Renaissance.—6 s.h.

ASSOCIATE PROFESSOR NELSON

History 223-224. Medieval Institutions and Culture.—6 s.h.

ASSOCIATE PROFESSOR QUINN

History 337. Social and Economic Life of the Old South.—4 s.h.

[Not offered in 1945-46]

PROFESSOR SYDNOR

Philosophy 201-202. The Philosophy of Art.—6 s.h. (E) PROFESSOR GILBERT
[Not offered in 1945-46]

Philosophy 213-214. History of Aesthetics.—6 s.h. (E) PROFESSOR GILBERT

Psychology 202. Psychology of Aesthetics.—3 s.h. PROFESSOR LUNDHOLM

Romance Languages 219. Old French.—3 s.h. PROFESSOR COWPER

FORESTRY

PROFESSOR KORSTIAN, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—FEW
QUADRANGLE, HOUSE GG-010; PROFESSORS BEAL, MAUGHAN, SCHUMACHER,
WACKERMAN, AND WOLF; ASSOCIATE PROFESSORS COILE, HARRAR,
KRAMER, AND THOMSON

Major and minor work is offered in the more scientific aspects of forestry leading to the Master of Arts and Doctor of Philosophy degrees to students who have received degrees from professional schools of forestry of recognized standing or from approved colleges or universities. Work for these degrees may be pursued only in forest-tree physiology, wood anatomy and properties, forest pathology, silvics, forest soils, forest mensuration, forest management, forest entomology, and forest economics, except that a major cannot be taken in forest management. College graduates who have had specialized training in botany or soil science and in allied basic subjects, such as physics, chemistry, geology, and zoology, may pursue graduate study and research only in the specialized fields for which their previous work has qualified them. Students who do not have previous training in forestry will be required to complete a minimum of thirty semester hours of approved work in the Division of Forestry as a preliminary requirement for admission to candidacy for the A.M. and Ph.D. degrees. These men will not be regarded as professionally trained foresters. For information on professional training in forestry, see *Bulletin of the School of Forestry*.

FOR SENIORS AND GRADUATES

224. Forest Pathology.—Special reference to diseases of forest trees. Prerequisites: Botany 1 and 2, and Forestry 253, or equivalents. 4 s.h.

PROFESSOR WOLF

231. Forest Entomology.—Morphology, general classification, life histories, and control of insects injurious to forest trees, logs, and lumber. 3 s.h.

PROFESSOR BEAL

251. Sampling Methods in Forestry.—Statistical background for solution of sampling problems with special reference to sample inventory of a forest property. Prerequisite: Forestry S151. 2 s.h.

PROFESSOR SCHUMACHER

252. Forest Mensuration.—Empirical equations and curve fitting appropriate for construction of timber yield tables, tree volume and taper tables; significance tests and graphical solution of equations. Assignments require operation of calculating machines. Prerequisite: Forestry 251. 2 s.h.

PROFESSOR SCHUMACHER

253. Dendrology.—Nomenclature, classification, and identification of woody plants with special reference to species indigenous to southeastern United States and other important forest regions of temperate North America. Laboratory and field work. Prerequisite: one year of botany. 3 s.h.

PROFESSOR BEAL

257. Design of Forestry Experiments and Analysis of Data.—Role of experimental design in field and laboratory, and statistical analysis of data as aspects of scientific method in forest research. 5 s.h.

PROFESSOR SCHUMACHER

259. Wood Anatomy and Properties.—Anatomical, chemical, and non-mechanical physical properties of wood; macroscopic and microscopic identification of more important woods of the United States. Prerequisites: one year of botany and Chemistry 1 and 2, or equivalents. 3 s.h.

ASSOCIATE PROFESSOR HARRAR

261. Forest Soils.—Origin, development, and classification of soils with special emphasis on those developed in climate supporting forests; morphological, physical, and chemical properties of soils in relation to growth of trees; field identification, field sampling, laboratory analysis, and interpretation of field and laboratory observations; interrelationships of soil and forest cover. Prerequisites: Chemistry 1 and 2, and Physics 1, or equivalents; physical geology and analytical chemistry are also desirable. 3 s.h.

[Not offered in 1945-46]

ASSOCIATE PROFESSOR COILE

264. Silvics.—Ecological foundations of silviculture with special reference to forest site factors; influence of forests on their environment; growth and development of trees and stands; origin, development, and classification of forest communities; methods of studying forest environments. Desirable prerequisites: plant physiology, plant ecology, and Forestry 253 and 261, or equivalents. 3 s.h.

PROFESSOR KORSTIAN

276. Forest Policy.—Critical study of forestry movement and development of a forest policy, particularly in the United States; brief résumé of forestry in important foreign countries; public land laws of the United States; development of federal and state forestry; forestry laws. 2 s.h.

[Not offered in 1945-46]

ASSOCIATE PROFESSOR THOMSON

279. Economics of Forestry.—Principles of forest economics. Economic and social values of forests; forest resources and wood requirements; economics of wood production and consumption; prices of forest products; forestry and public finance; forestry and land use; forestry credit; forest fire insurance; forestry as a private business enterprise. Prerequisite: at least one course in the principles of economics. 3 s.h.

PROFESSOR WACKERMAN

FOR GRADUATES

323-324. Advanced Forest Pathology.—Advanced study and research on life histories and control of diseases of forest trees to meet individual needs of graduate students. Prerequisites: plant physiology and forest pathology. Credits to be arranged.

PROFESSOR WOLF

351-352. Advanced Physiology of Forest Trees.—Advanced study and research on problems in physiology of forest trees to meet individual needs of graduate students. Prerequisites: plant physiology and plant ecology or silvics. Credits to be arranged.

ASSOCIATE PROFESSOR KRAMER

354. Forest Soil Fertility.—Experimental approach to the problems of fertility in forest soil. Influence of stand composition on nitrogen transformation. Methods of studying the exchange complex and the significance of base exchange in forest soil fertility. Prerequisites: Forestry 251 and 261, and plant physiology, or equivalents; bacteriology and analytical and organic chemistry are desirable. 3 s.h.

ASSOCIATE PROFESSOR COILE

[Not offered in 1945-46]

356. Economic Forces in Forestry.—Analysis of classical and contemporary theories of forest valuation. Principles underlying the measurement of forces determining forestry values. Prerequisites: Forestry 279 and 282, or equivalents; courses in economic theory are desirable. 2 s.h.

[Not offered in 1945-46]

ASSOCIATE PROFESSOR THOMSON

357-358. Research in Forestry.—Credits to be arranged. Students who have had adequate training may do research under direction of members of the Faculty in the following branches of forestry:

- a. **Silvics.**—Prerequisites: Forestry 253, 261, and 264, or equivalents.
PROFESSOR KORSTIAN
- b. **Forest Soils.**—Prerequisite: Forestry 261 or equivalent.
[Not offered in 1945-46] ASSOCIATE PROFESSOR COILE
- d. **Forest Management.**—Prerequisite: Forestry 281 or equivalent.
PROFESSOR MAUGHAN
- e. **Forest Economics.**—Prerequisite: Forestry 279 or equivalent.
PROFESSOR WACKERMAN
- f. **Wood Anatomy and Properties.**—Prerequisites: Forestry 259 and 260, or equivalents.
ASSOCIATE PROFESSOR HARRAR
- g. **Forest Mensuration.**—Prerequisites: Forestry S151, 251, and 252, or equivalents.
PROFESSOR SCHUMACHER
- h. **Forest Entomology.**—Prerequisite: Forestry 231 or equivalent.
PROFESSOR BEAL

GERMANIC LANGUAGES AND LITERATURE

PROFESSOR VOLLMER, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—205 PAGE AUDITORIUM; PROFESSOR KRUMMEL

Any of the following courses for which there is sufficient demand will be offered.

201-202. **Goethe.**—A careful study of Goethe's life and works, with special emphasis upon the broader aspects of his ever-widening interests and literary activities. 6 s.h.
PROFESSOR KRUMMEL

203-204. **Leibnitz to Romanticism.**—Eighteenth-century German literature in its relation to contemporary European philosophy. 6 s.h.
PROFESSOR VOLLMER

205-206. **Middle High German.**—The language and literature of Germany's first classical period. 6 s.h.
PROFESSOR VOLLMER

207-208. **German Romanticism.**—The course covers the entire field of German Romanticism from 1800 to 1850. 6 s.h.
PROFESSOR VOLLMER

209-210. **Kleist, Grillparzer, and Hebbel.**—A study of the leading representatives of German drama in the first half of the nineteenth century. 6 s.h.
PROFESSOR KRUMMEL

211-212. **Heinrich Heine.**—A study of the German poet and his immediate successors in the movement known as *Jungdeutschland*. 6 s.h.
PROFESSOR VOLLMER

213-214. **Literature of the Empire, 1871-1914.**—A study of the literature of this period as determined particularly by the philosophical, social, political, and religious factors. 6 s.h.
PROFESSOR VOLLMER

FOR GRADUATES ONLY

301-302. **Gothic—Middle High German.**—In the first term the essentials of Gothic morphology, phonology, and grammar are investigated, and original Gothic literature is read. In the second term the leading medieval German epics are read in the original. 6 s.h.
PROFESSOR VOLLMER

303-304. **German Seminar.**—A seminar will be conducted in an eighteenth- or nineteenth-century field for properly qualified students. Credit to be arranged.
PROFESSORS VOLLMER AND KRUMMEL

RELATED COURSES IN OTHER DEPARTMENTS

The following courses in other departments are recommended to students, who are majoring in Germanics, as particularly valuable in building a proper background for Germanic studies:

Graduate courses in literature or philology offered by the ancient and modern language departments, to be selected after consultation with the German Department.

History 217-218. Europe since 1870.—6 s.h. PROFESSOR CARROLL

History 221-222. The Age of the Renaissance.—6 s.h.
ASSOCIATE PROFESSOR NELSON

History 223-224. Medieval Institutions and Culture.—6 s.h.
ASSISTANT PROFESSOR QUINN

History 225-226. The Age of the Reformation.—6 s.h.
[Not offered in 1945-46] ASSOCIATE PROFESSOR NELSON

Philosophy 201-202. The Philosophy of Art.—6 s.h. (E)
[Not offered in 1945-46] PROFESSOR GILBERT

Philosophy 213-214. History of Aesthetics.—6 s.h. (E) PROFESSOR GILBERT

Philosophy 223. Contemporary Philosophy.—*Second semester.* 3 s.h.
PROFESSOR WIDGERY

Philosophy 244. Nietzsche and the Nineteenth Century.—3 s.h.
[Not offered in 1945-46] ASSOCIATE PROFESSOR MORGAN

Sociology 320. History of Sociological Theory.—3 s.h. PROFESSOR JENSEN

HISTORY

PROFESSOR LAPRADE, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—2B WEST DUKE BUILDING; PROFESSORS CARROLL, CLYDE, LANNING, AND SYDNOR;
ASSOCIATE PROFESSORS MANCHESTER, NELSON, AND WOODY;
ASSISTANT PROFESSORS QUINN AND STILL

AMERICAN HISTORY

FOR SENIORS AND GRADUATES

203-204. The United States, 1850-1900.—The rise of sectionalism, secession, wartime problems of the Union and Confederacy, political and economic adjustments of Reconstruction, the status of the Negro, the New South, problems of capital and labor, the agrarian revolt, political parties and reform, the Spanish-American War. 6 s.h. (E) ASSOCIATE PROFESSOR WOODY

209-210. Constitutional History of the United States, 1763-1860.—A study of the Colonial foundations of American constitutional attitudes, the constitutional aspects of the American Revolution, the framing and ratification of the Constitution, the statehood process and the extension of democracy, the constitutional implications of sectional conflict, and the Supreme Court in its relation to the problems of an industrial America. Prerequisites: courses 91 and 92. 6 s.h. ASSISTANT PROFESSOR STILL
[Not offered in 1945-46]

215-216. Foreign Policy and Diplomacy of the United States.—The work in the first semester, covering the period 1775-1877, deals with such topics as the origins and evolution of basic foreign policies; isolation from Europe; paramount interests in Latin America, including the Monroe Doctrine; international co-operation in the Far East. The work in the second semester, covering the period since 1877, deals with such topics as the rise of the new Manifest Destiny; beginnings of American imperialism in Latin America and

the Far East; the failure of traditional neutrality in the first World War; postwar conflicts between isolation and collective security; involvement in the second World War. 6 s.h. PROFESSOR CLYDE

[Not offered in 1945-46]

230. **The Portuguese Empire and the Rise of Brazil.**—The course will deal with Portuguese explorations, the establishment of the Portuguese Empire in the East, the transplanting of Portuguese culture overseas, and the rise of a native Brazilian civilization. 3 s.h. ASSOCIATE PROFESSOR MANCHESTER

[Not offered in 1945-46]

231. **The Hispanic Colonies of the New World.**—The development of the Iberian states as colonizing powers, the work of the conquerors, the Spanish colonial policy and system, their influences and results, native races, the international contest for supremacy, and the decay of Spanish power in America and the Philippines. 3 s.h. PROFESSOR LANNING

[Not offered in 1945-46]

232. **The Hispanic American Republics of the New World.**—3 s.h.

[Not offered in 1945-46]

PROFESSOR LANNING

233. **The Cultural and Institutional History of Colonial Hispanic America.**—3 s.h. PROFESSOR LANNING

234. **Political and Social Problems in the Hispanic American Republics.**—3 s.h. PROFESSOR LANNING

263-264. **American Colonial History and the Revolution, 1606-1783.**—The growth of institutions and economic life in the English colonies; the American Revolution. 6 s.h. ASSOCIATE PROFESSOR WOODY

[Not offered in 1945-46]

265-266. **The Westward Movement in the United States.**—A study of the progress of settlement from the Atlantic to the Pacific Coast with especial attention to the transmission of culture, developments in transportation, the transition from agrarian to urban communities, the process of state making, and the social, economic, and political effects of the westward march upon the United States as a whole. 6 s.h. ASSISTANT PROFESSOR STILL

[Not offered in 1945-46]

FOR GRADUATES

315. **Seminar in Southern History.**—Year course. 2 s.h.

PROFESSOR SYDNOR

321. **Seminar in the History of Spain and the Spanish-American Colonies.**—Year course. 2 s.h. PROFESSOR LANNING

336. **The South in Federal Politics, 1789-1860.**—The interests and political actions of the South on such questions as public lands, internal improvements, foreign policy, the tariff, and slavery; the political techniques and theories of the South. Year course. 4 s.h. PROFESSOR SYDNOR

337. **Social and Economic Life of the Old South.**—Conditions and trends in the South in respect to population movements, transportation, agriculture, slavery, urban life, commerce, manufacturing, religion, education, and other intellectual activities. Year course. 4 s.h. PROFESSOR SYDNOR

[Not offered in 1945-46]

EUROPE AND THE FAR EAST

FOR SENIORS AND GRADUATES

217-218. **Europe since 1870.**—International relations since the Franco-German War is the chief subject of study in this course; special emphasis is placed upon the underlying economic and political influences. 6 s.h.

PROFESSOR CARROLL

219-220. The History of the European Proletariat.—This course is concerned chiefly with the origins, expansion, and organization of the industrial working classes of Europe. The following problems are emphasized: the decline of serfdom, the growth of an urban working class and social revolutions in England, France, and Germany prior to the eighteenth century, the results of the Industrial Revolution, and labor movements and theories during the nineteenth and twentieth centuries. 6 s.h. PROFESSOR CARROLL

[Not offered in 1945-46]

221-222. The Age of the Renaissance.—The decline of characteristic features of medieval civilization and the rise of modern European institutions with particular attention to intellectual movements from Dante to Erasmus. 6 s.h. ASSOCIATE PROFESSOR NELSON

223-224. Medieval Institutions and Culture.—A consideration of the classical heritage, the Germanic infusion, development of ecclesiastical, feudal, monarchical, and communal institutions, relations of Church and State, the rise of universities, vernacular literature, philosophy, and art, in the period 300-1300 A.D. 6 s.h. ASSISTANT PROFESSOR QUINN

225-226. The Age of the Reformation.—A survey of European civilization from 1500 through the Peace of Westphalia. 6 s.h.

[Not offered in 1945-46]

ASSOCIATE PROFESSOR NELSON

241-242. The Foreign Relations and Diplomacy of the United States in the Pacific and the Far East.—A study of the origins and growth of American relations with China, Japan, the Philippines, and other Pacific areas in their commercial, political, and cultural aspects. 6 s.h. PROFESSOR CLYDE

FOR GRADUATES

305. Seminar in the History of England and the British Empire.—The work consists of practical training in the methods of historical research based on sources for modern British history. Year course. 2 s.h.

PROFESSOR LAPRADE

317. Seminar in Recent European History.—Year course. 2 s.h.

PROFESSOR CARROLL

325. British Nationality and Public Opinion.—A study of the various political and social groups that have contended for power in England since the sixteenth century and the methods they used. Year course. 4 s.h.

[Not offered in 1945-46]

PROFESSOR LAPRADE

327. Modern Phases of the English Constitution.—A brief review of the medieval constitution followed by a more intensive study of certain aspects of its development in the sixteenth, seventeenth, and eighteenth centuries. Year course. 4 s.h.

PROFESSOR LAPRADE

343. Seminar in the History of American Foreign Relations and the Far East.—Year course. 2 s.h.

PROFESSOR CLYDE

HISTORIOGRAPHY AND THE TEACHING OF HISTORY

FOR SENIORS AND GRADUATES

211. The Teaching of History and the Social Studies.—The work consists of a discussion of the question of aims and values in teaching history and civics, textbooks, programs of study, methods of instruction, the use of maps and pictures, the making of lesson plans for use in the high school, and other problems of high-school teaching. 3 s.h. ASSOCIATE PROFESSOR MANCHESTER

[Not offered in 1945-46]

FOR GRADUATES

320. Historiography.—A critical study of the process of finding, appraising, and interpreting the sources of history and of the presentation of the

results in narrative. Works of important historians from Herodotus to the present are analyzed. The student undertakes specific exercises in research, criticism, and narration. There is consideration of such general topics as schools, theories, philosophies, and the function of history. Year course. 4 s.h.
[Not offered in 1945-46] ASSOCIATE PROFESSOR NELSON

This course is required of all candidates for the degree of Doctor of Philosophy who are in residence as many as two years at Duke University unless excused therefrom by the Department.

329. Historiography of the South.—Attention is given to the more important printed and manuscript sources and to the writings of the older historians. Bibliographical and research problems are introduced. Year course. 4 s.h.
[Not offered in 1945-46] ASSOCIATE PROFESSOR WOODY

RELATED COURSES IN OTHER DEPARTMENTS

- Economics 215. Economic Systems.**—3 s.h. PROFESSOR HOOVER
Economics 216. Economic Functions of the State.—3 s.h. PROFESSOR HOOVER
Economics 231. Economic History of Modern Europe.—3 s.h. ASSISTANT PROFESSOR SMITH
Economics 311-312. History of Political Economy.—6 s.h. PROFESSOR SPENGLER
Political Science 223. Political Thought to the Seventeenth Century.—3 s.h. PROFESSOR WILSON
Political Science 224. Modern Political Theory.—3 s.h. PROFESSOR WILSON
Religion 309. History of the Ancient Near East.—3 s.h. PROFESSOR STINESPRING
Religion 393. Religious Thought in Colonial America.—3 s.h. PROFESSOR SMITH
Religion 394. Religious Thought in Modern America.—3 s.h. PROFESSOR SMITH
Sociology 237. Indians of North America.—3 s.h. [Not offered in 1945-46] ASSOCIATE PROFESSOR GILLIN
Sociology 238. Anthropological Backgrounds of Latin America.—3 s.h. ASSOCIATE PROFESSOR GILLIN
Sociology 239. Acculturation and Cultural Synthesis.—3 s.h. ASSOCIATE PROFESSOR GILLIN
Sociology 240. The Peoples of Africa.—3 s.h. [Not offered in 1945-46] ASSOCIATE PROFESSOR GILLIN
Sociology 320. History of Sociological Theory.—3 s.h. PROFESSOR JENSEN

MATHEMATICS

PROFESSOR GERGEN, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—03 GRAY BUILDING; PROFESSORS CARLITZ, ELLIOTT, RANKIN, AND THOMAS; ASSOCIATE PROFESSOR ROBERTS; ASSISTANT PROFESSOR DRESSL

The Department normally offers basic courses in each of the main divisions of mathematics: algebra, analysis, geometry, and applied mathematics. The Department will offer in 1945-46 those of the following courses not specifically closed for which there is sufficient demand.

The Master's degree with major in mathematics is awarded primarily on the basis of scholarship. The candidate's preliminary mathematical work for the degree must be approved by the Department through the Director of Graduate Studies. It must include differential and integral calculus and an additional six semester hours of work in mathematical courses of at least Junior level. Eighteen of the twenty-four semester hours of course work required by the general regulations for the degree must be taken in the Department.

The Doctor's degree with major in mathematics is awarded as a recognition of potential ability and training in research. The original dissertation is the most important of the formal requirements for it. A candidate should have this requirement in mind from the outset and plan his courses accordingly.

Because of the important mathematical literature in French and German, a student taking graduate work in mathematics should have a practical reading knowledge of these languages near the beginning of his graduate study.

FOR SENIORS AND GRADUATES

201. History of Mathematics.—Evolution of the number system, arithmetic, geometry, algebra, trigonometry, analytic geometry, calculus, and modern geometry. Brief sketches of mathematicians. Prerequisite: differential calculus. 3 s.h.

PROFESSOR RANKIN

204. Teaching of Mathematics.—Fundamental processes, methods of study, mathematical literature, content of courses, applications, use of instruments, correlation of different branches, historical development of secondary school mathematics. Must be preceded or accompanied by integral calculus. 3 s.h.

PROFESSOR RANKIN

225. Theory of Equations.—Permutations, determinants, matrices, linear systems, polynomials and their roots, constructibility, resultants, discriminants, simultaneous equations. Prerequisite: integral calculus. 3 s.h.

227-228. Theory of Numbers.—Congruences, arithmetic functions, compound moduli, quadratic reciprocity, Gauss sums, quadratic forms, sums of squares. Prerequisite: integral calculus. 6 s.h.

PROFESSOR CARLITZ

229-230. Algebraic Numbers.—Ideals, unique factorization, divisors of the discriminant, determination of the class number. Prerequisite: Mathematics 225. 6 s.h.

PROFESSOR CARLITZ

235-236. Modern Algebra.—Groups, fields, rings, matrices, quadratic and bilinear forms, general Galois theory, hypercomplex systems. Prerequisite: integral calculus. 6 s.h.

PROFESSOR CARLITZ

250. Modern Geometry.—Properties of the triangle, transversals, harmonic properties of figures, poles, polars, inversion. 3 s.h.

PROFESSOR THOMAS

[Not offered in 1945-46]

255-256. Projective Geometry.—Postulational, synthetic treatment centering around Desargues' theorem and the principle of projectivity. Conics, coordinates, order, continuity, metric properties. Prerequisite: integral calculus. 6 s.h.

PROFESSOR THOMAS

[Not offered in 1945-46]

271-272. Introductory Topology.—Topological properties of Euclidean spaces; set-theoretic and combinatorial methods. Prerequisite: integral calculus. 6 s.h.

ASSOCIATE PROFESSOR ROBERTS

[Not offered in 1945-46]

275. Probability.—Combinatory analysis, mean values, Bernoulli's theorem, probability integral, applications to statistics. Prerequisite: integral calculus. 3 s.h.

ASSISTANT PROFESSOR DRESSEL

281. Elementary Potential Theory.—Newtonian potentials, vector fields, Dirichlet and Neumann problems. Prerequisite: integral calculus. 3 s.h.

PROFESSOR GERGEN

282. Differential Equations of Mathematical Physics.—Hamilton-Jacobi equation, heat equation, wave equation, telegraphic equation, Schrödinger's equation. Prerequisite: integral calculus. 3 s.h.

ASSISTANT PROFESSOR DRESSEL

283. Fourier Series and Spherical Harmonics.—Fourier series and integrals, Legendre polynomials, spherical harmonics, Bessel functions, applications to mathematical physics. Prerequisite: integral calculus. 3 s.h.

ASSISTANT PROFESSOR DRESSEL

284. Vector Analysis.—Vectors in three-dimensional Euclidean space with applications to physics; introduction to tensor analysis. Prerequisite: integral calculus. 3 s.h.

PROFESSOR THOMAS

[Not offered in 1945-46]

287. Mathematical Logic.—Boole-Schroeder algebra of logic, system of Principia Mathematica, strict and material implication. 3 s.h.

PROFESSOR CARLITZ

288. Foundations of Mathematics.—Postulates for groups, fields, rings, Boolean algebras. 3 s.h.

PROFESSOR CARLITZ

291-292. Theory of Functions.—Limits, implicit functions, power series, double series, Cauchy's theorem and its applications, residues, Riemann surfaces, conformal mapping. Prerequisite: second course in calculus. 6 s.h.

PROFESSOR GERGEN

FOR GRADUATES

301-302. Algebraic Geometry.—Homogeneous coördinates, singular points and lines, Newton's parallelogram, Plücker's equations, intersections of curves. Prerequisite: Mathematics 255-256. 6 s.h.

PROFESSOR THOMAS

[Not offered in 1945-46]

325-326. Real Variable.—Number system, theory of sets, transfinite numbers, Baire classes, Lebesgue, Stieltjes and Denjoy integrals, linear operations. Prerequisite: Mathematics 291-292. 6 s.h.

PROFESSOR GERGEN

331-332. Complex Variable.—Analytic continuation, univalent functions, meromorphic functions, analytic functions of several complex variables. Prerequisite: Mathematics 291-292. 6 s.h.

333-334. Analytic Theory of Numbers.—Distribution of primes, primes in an arithmetic progression, Waring and Goldbach problems. Prerequisite: Mathematics 291-292. 6 s.h.

PROFESSOR CARLITZ

337-338. Existence Theorems.—Systems of partial differential equations, Pfaffian systems, theorems of Cauchy, Riquier, and Cartan, singular integral varieties. Prerequisite: Mathematics 291-292. 6 s.h.

PROFESSOR THOMAS

[Not offered in 1945-46]

341-342. Integral Equations.—Volterra and Fredholm integral equations, application to boundary problems of differential equations. Prerequisites: differential equations and second course in calculus. 6 s.h.

PROFESSOR ELLIOTT

343-344. Ordinary Differential Equations.—Solution by separation of variables, exact differentials, integrating factors, solution in series. Cauchy's existence theorem, linear differential systems, singular points, partial differential equations equivalent to ordinary systems. Prerequisite: Mathematics 291-292. 6 s.h.

PROFESSOR THOMAS

[Not offered in 1945-46]

353-354. Trigonometric Series.—Topics in the theory of trigonometric, particularly Fourier, series, related results in Lebesgue integration and complex variable. Prerequisite: Mathematics 325-326. 6 s.h. PROFESSOR GERGEN

371-372. Dimension Theory.—Abstract spaces, separation theory for Euclidean spaces, dimension theory. Prerequisite: Mathematics 271-272. 6 s.h. [Not offered in 1945-46] ASSOCIATE PROFESSOR ROBERTS

373-374. Continuous Transformations.—Recent results concerning a number of special types of continuous transformations. Prerequisite: Mathematics 271-272. 6 s.h. ASSOCIATE PROFESSOR ROBERTS
[Not offered in 1945-46]

382. Potential Theory.—Properties of harmonic functions, boundary value problems, potentials of general mass distributions. Prerequisites: Mathematics 281 and 325-326. 3 s.h. PROFESSOR GERGEN

PHILOSOPHY

PROFESSOR WIDGERY, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—303 DIVINITY SCHOOL; PROFESSORS GILBERT AND SMITH; ASSOCIATE PROFESSORS LEONARD AND MORGAN; ASSISTANT PROFESSOR MCLARTY

Courses normally given in alternate years marked with a dagger are not offered in 1945-46. Those marked with an asterisk are offered in 1945-46.

FOR SENIORS AND GRADUATES

†201-202. **The Philosophy of Art.**—Study of the various phases of the esthetic experience and forms of beauty with analysis of examples. Particular attention will be given to recent writers on esthetics. 6 s.h. (E) PROFESSOR GILBERT

203. **The Philosophy of Conduct.**—A critical study of the fundamental problems of ethics. 3 s.h. ASSOCIATE PROFESSOR MORGAN

†205. **The Philosophy of History.**—An inquiry into the logic and methodology of the knowledge of history, and into the metaphysical implications of history. 3 s.h. PROFESSOR WIDGERY

†208. **Political Philosophy.**—A critical investigation of the bases of political authority and of the ideals of political organization, with reference to prevalent political systems. 3 s.h. ASSOCIATE PROFESSOR MORGAN

*209-210. **The Philosophy of Religion.**—A critical consideration of the data of empirical religion and the constructive development of modern philosophy of religion. 6 s.h. PROFESSOR WIDGERY

†211. **Philosophy of Civilization.**—The meaning and standards of civilization; its growth, decay, and survival. 3 s.h. ASSOCIATE PROFESSOR MORGAN

*213-214. **History of Aesthetics.**—The tracing of the historical solutions of traditional problems such as the nature of imitation, symbolism, the ugly, the sublime, and the comic; the relation of art to nature, to morals, and to economics; the relation of the particular arts to each other, the standard of tastes. 6 s.h. (E) PROFESSOR GILBERT

215. **Christian Ethics I.**—A historical and systematic study of Christian conceptions of the moral life. Religion 291. 3 s.h. PROFESSOR SMITH

216. **Christian Ethics II.**—A critical consideration of selected modern problems from the viewpoint of the Christian ethic. Religion 292. 3 s.h. PROFESSOR SMITH

†217. **The Philosophy of Aristotle.**—Prerequisite: 105. 3 s.h. ASSISTANT PROFESSOR MCLARTY

*223. **Contemporary Philosophy.**—A study of the leading philosophical movements in Europe and America in the last fifty years. *Second semester.* 3 s.h. PROFESSOR WIDGERY

†226. **The History of Ethics.**—Theories of morality from Socrates to the present time. 3 s.h. ASSOCIATE PROFESSOR MORGAN

†231-232. **Philosophy of Science.**—A historical and critical survey of the relations of natural science to general philosophy. 6 s.h. ASSOCIATE PROFESSOR LEONARD

†236. **Oriental Philosophy I. Chinese Philosophy.**—3 s.h.

†238. **Oriental Philosophy II. Indian Philosophy.**—3 s.h. PROFESSOR WIDGERY

*241. **Logic.**—The characteristic structure of a logical system. Forms of propositions and arguments. Logical relations of propositions. Levels of analysis. 3 s.h. ASSOCIATE PROFESSOR LEONARD

*242. **Scientific Methodology.**—A survey of the methods used in the different branches of the natural and social sciences in seeking and testing knowledge. 3 s.h. ASSOCIATE PROFESSOR LEONARD

†244. **Nietzsche and the Nineteenth Century.**—Studies in the major trends of intellectual life of the period, focused around the work of Nietzsche. 3 s.h. ASSOCIATE PROFESSOR MORGAN

†248. **Philosophy of Values.**—2 s.h.

FOR GRADUATES

301-302. **Seminar in Philosophy.**—Special problems, chiefly metaphysical. Two hours a week throughout the year. Time to be arranged. 4 s.h. PROFESSOR WIDGERY

†305. **Seminar: Spinoza.**—Detailed study of Spinoza's works showing the development of his own thought and his relation to his contemporaries. 3 s.h. PROFESSOR GILBERT

†307. **Seminar: Kant.**—*Second semester.* 2 s.h. ASSOCIATE PROFESSOR MORGAN

†308. **Seminar: Hegel.**—A study of a selection of the text together with recent interpretations. 3 s.h. PROFESSOR GILBERT

†310. **Seminar: Logical Positivism and Its Relation to Contemporary Movements in Philosophy and Science.**—2 s.h. ASSOCIATE PROFESSOR LEONARD

†315. **Seminar in Leibnitz.**—2 s.h.

319. **Religious Thought in Colonial America.**—Religion 393. 3 s.h. PROFESSOR SMITH

320. **Religious Thought in Modern America.**—Religion 394. 3 s.h. PROFESSOR SMITH

323. **Seminar in American Religious Thought.**—Religion 397. 2 s.h. PROFESSOR SMITH

†325. **Seminar: Locke, Berkeley, Hume.**—2 s.h. ASSOCIATE PROFESSOR LEONARD

326. **Seminar: Christian Ethics.**—Selected problems. Religion 398. 2 s.h. PROFESSOR SMITH

331-332. **Seminar in Special Fields of Philosophy.**—2 s.h. each semester.
(a) **Logic and Philosophy of Science.** ASSOCIATE PROFESSOR LEONARD

- (b) Ethics and Political Philosophy. ASSOCIATE PROFESSOR MORGAN
 (c) Aesthetics. PROFESSOR GILBERT
 (d) Philosophy of Religion and of History. PROFESSOR WIDGERY

RELATED COURSES IN OTHER DEPARTMENTS

Education 200. Introduction to the Philosophy of Education.—3 s.h.
 PROFESSOR HOLTON

Greek 209-210. Plato.—6 s.h. ASSISTANT PROFESSOR WAY

History 221-222. The Age of the Renaissance.—6 s.h.
 ASSOCIATE PROFESSOR NELSON

Mathematics 287. Mathematical Logic.—3 s.h. PROFESSOR CARLITZ

Mathematics 288. Foundations of Mathematics.—3 s.h. PROFESSOR CARLITZ

Physics 213-214. Contemporary Physics.—6 s.h.
 ASSOCIATE PROFESSOR CONSTANT

Political Science 223. Political Thought to the Seventeenth Century.—
 3 s.h. PROFESSOR WILSON

Political Science 224. Modern Political Theory.—3 s.h. PROFESSOR WILSON

Psychology 228. Psychology of Belief.—3 s.h. PROFESSOR LUNDHOLM
 [Not offered in 1945-46]

Religion 221. Platonism and Christianity.—3 s.h.

Religion 222. Theology and Philosophy in the Nineteenth Century.—3 s.h.

Sociology 320. History of Sociological Theory.—3 s.h. PROFESSOR JENSEN

Zoology 341. Historical and Philosophical Zoology.—2 s.h.
 PROFESSOR HARGITT

PHYSICS

PROFESSOR NIELSEN, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—111

PHYSICS BUILDING; PROFESSORS HATLEY, NORDHEIM, AND SPONER;

ASSOCIATE PROFESSOR CONSTANT; ASSISTANT PROFESSOR BONNER

The Department of Physics makes provision for both beginning and advanced graduate students. The courses are designed to give a broad basic foundation in classical and quantum physics.

The preliminary work for the Master's degree must be approved by the Department. It must include at least twelve semester hours of physics of Junior grade or higher, and mathematics through differential and integral calculus.

All graduate students will first be expected to acquire a thorough knowledge of the various branches of classical physics as well as some familiarity with modern physics and sufficient laboratory training. They will be required to take such course work in the 200 group of studies as may be necessary to complete this foundation.

To complete their course requirements in physics, graduate students will take such advanced courses as will best help them and fit them for the type of work in which they plan to specialize and undertake research. The character of the work in other related departments will also depend upon the field of subsequent specialization and research.

Since a reading knowledge of French and German is highly desirable, students are urged to satisfy the language requirements in both as early as possible.

The research work of the Department is largely confined to the experimental and theoretical fields of nuclear physics and molecular structure. Experimental work is also being done in magnetism.

FOR SENIORS AND GRADUATES

213-214. Contemporary Physics.—A course which covers in a descriptive manner the fundamental concepts and experimental basis of modern theories of the structure of matter. 6 s.h. ASSOCIATE PROFESSOR CONSTANT

215-216. Atomic Physics Laboratory.—Some of the more important experiments which form the basis of modern atomic theory. Special emphasis is placed on experimental technique, valuable in original physical investigations. 2-4 s.h. PROFESSORS NIELSEN AND SPONER

217-218. Advanced General Physics Laboratory.—Exact measurements involving the fields of mechanics, electrical measurements, heat, and pyrometry. 2 s.h. PROFESSORS NIELSEN AND SPONER

219. Electron Tubes and Their Application.—Theory and application of electron tube circuits with special emphasis on their use in scientific research. Three hours of lecture and one three-hour laboratory per week. 4 s.h. PROFESSOR NIELSEN

221-222. Introduction to Theoretical Physics.—Lectures and problems on the fundamental principles and mathematical theory of the general field of physics, constituting a thorough foundation for subsequent specialization and more intensive study. 8 s.h. ASSOCIATE PROFESSOR CONSTANT

FOR GRADUATES

303. Thermodynamics.—Fundamental laws of thermodynamics and their applications to physics and chemistry. Offered jointly by the Departments of Physics and Chemistry. 3 s.h. PROFESSORS GROSS AND SPONER

305. Kinetic Theory of Matter.—Gas laws, Maxwell's distribution law; mean free path; viscosity; heat conductivity; diffusion; phenomena in gases at low pressure; specific heat; entropy; probability and reaction kinetics. 3 s.h. PROFESSOR SPONER

307. Advanced Dynamics.—A course dealing with the more advanced phases of dynamics and considering such topics as equations of Lagrange and Hamilton, generalized coördinates, oscillatory and cyclic motion, criteria of equilibrium, and the Newtonian potential theory. 3 s.h. PROFESSOR NORDHEIM
[Not offered in 1945-46]

308. Theory of Electricity and Magnetism.—Electrostatics and potential theory. Dielectric and magnetic media. The magnetic field of currents and the law of induction. AC currents and networks. 3 s.h. PROFESSOR NORDHEIM
[Not offered in 1945-46]

315-316. Principles of Quantum Theory.—Origin and fundamental concepts of quantum theory; wave and matrix mechanics; theory of measurements; exclusion principle and electronic spin. 6 s.h. PROFESSOR NORDHEIM
[Not offered in 1945-46]

319. Electrodynamics.—Maxwell's system of electrodynamics. Production and propagation of electromagnetic waves. Wave optics. Theory of interference and diffraction. Crystal optics. 3 s.h. PROFESSOR NORDHEIM
[Not offered in 1945-46]

320. Theory of Electrons.—Lorentz' equations of electrodynamics. Classical theories of dispersion, magnetism, and conductivity. Theory of relativity. 3 s.h. PROFESSOR NORDHEIM
[Not offered in 1945-46]

323. Theory of Atomic Spectra.—Excitation of spectra, computation of wave lengths from photographs of spectra, study of the structure of atomic spectra with applications. 3 s.h. PROFESSOR SPONER

[Not offered in 1945-46]

324. Theory of Molecular Spectra.—A study of the structure of molecular spectra with applications. 3 s.h. PROFESSOR SPONER

[Not offered in 1945-46]

340. Structure of Matter.—Selected topics dealing with the constitution of matter such as crystal structure and X-rays, the solid state and problems of molecular structure. 3 s.h. PROFESSOR SPONER

[Not offered in 1945-46]

341. Advanced Topics in Quantum Theory.—Quantum theory of radiation and collisions with special reference to nuclear physics. Prerequisite: Physics 315-316. 3 s.h. PROFESSOR NORDHEIM

[Not offered in 1945-46]

343-344. Radioactivity and Nuclear Structure.—Discovery of radioactivity, properties of Alpha, Beta, and Gamma rays, successive transformations, artificial transmutations and nuclear structure. 6 s.h. PROFESSOR NIELSEN

[Not offered in 1945-46]

351-352. Seminar.—A series of weekly discussions on topics related to the research projects under investigation in the Department. 2 s.h. STAFF

353-354. Thesis Seminar.—Students who are properly qualified may carry on research work under the direction of members of the Staff. 6 s.h. STAFF

POLITICAL SCIENCE

PROFESSOR WILSON, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—311

LIBRARY; PROFESSORS RANKIN AND VON BECKERATH; ASSOCIATE PRO-

FESSORS COLE AND SHIPMAN; ASSISTANT PROFESSORS GIBSON,

HALLOWELL, LINEBARGER, AND WALTER

FOR SENIORS AND GRADUATES

207. American Constitutional Law and Theory.—A study of leading principles of American government, as developed through judicial interpretation of the Constitution. 3 s.h. PROFESSOR WILSON

209. State and Local Government in the United States.—A study of the historical development of state and local governments, their present organization, their relation to each other and to the federal government. 3 s.h. PROFESSOR RANKIN

211. Political Institutions of the Far East.—A study of the governmental systems of Japan, Korea, and China from the Chou Dynasty to the present. 3 s.h. ASSISTANT PROFESSOR LINEBARGER

[Not offered in 1945-46]

212. International Politics of the Far East.—A study of changing power relationships in the Orient since the arrival of the Europeans. 3 s.h.

[Not offered in 1945-46]

ASSISTANT PROFESSOR LINEBARGER

223. Political Thought to the Seventeenth Century.—A survey of political thought from the time of Plato to the close of the sixteenth century. 3 s.h.

PROFESSOR WILSON AND ASSISTANT PROFESSOR HALLOWELL

224. Modern Political Theory.—Political theories of the seventeenth and eighteenth centuries, and of the first half of the nineteenth, with a study of their influence upon modern political institutions. 3 s.h.

PROFESSOR WILSON AND ASSISTANT PROFESSOR HALLOWELL

225. Comparative Government.—A comparative study of modern political institutions with particular attention to European constitutional government and politics. 3 s.h.

ASSOCIATE PROFESSOR COLE AND ASSISTANT PROFESSOR HALLOWELL

226. Comparative Government.—A comparative study of modern political institutions with particular attention to European authoritarian and dictatorial government and politics. 3 s.h.

ASSOCIATE PROFESSOR COLE AND ASSISTANT PROFESSOR HALLOWELL

227-228. International Law.—Elements of international law, particularly as interpreted and applied by the United States. 6 s.h. PROFESSOR WILSON

229. Recent and Contemporary Political Theory.—A study of the more significant contributions to political theory from 1850 to the present. 3 s.h.

ASSOCIATE PROFESSOR COLE

230. American Political Institutions.—A study of the formation and development of institutions of the national government in the United States, with historical and analytical treatment. 3 s.h. PROFESSOR RANKIN

241-242. The Administrative Process.—The function and theory of organization, delegated legislation, administrative adjudication, the control of administration, and special problems in economic balancing and proprietary activities. 6 s.h.

ASSISTANT PROFESSOR WALTER

244. Administrative Law.—The law of the administrative process, including the nature of regulatory authority, the status and liability of public officers, administrative tribunals and judicial review of administrative action. 3 s.h.

ASSISTANT PROFESSOR WALTER

252. Spanish-American Constitutionalism.—A comparative study of the nature, sources, and use of political authority in the constitutional law of Argentina, Chile, Colombia, and Uruguay. 3 s.h. ASSISTANT PROFESSOR GIBSON
[Not offered in 1945-46]

271. Sociopolitics and Capitalism.—Labor and labor policies in Western Europe and the United States in the nineteenth and twentieth centuries; "social security" during and after the war. 3 s.h.

PROFESSOR VON BECKERATH

291. Municipal Government.—A study of problems relating to the structural system and activities of municipalities in the United States. 3 s.h.

PROFESSOR RANKIN

292. Municipal Administration.—A study of principles and methods of municipal administration in the United States. 3 s.h. PROFESSOR RANKIN

FOR GRADUATES

310. Seminar in State Government.—Open to students who have completed course 209 or its equivalent. 3 s.h.

PROFESSOR RANKIN

[Not offered in 1945-46]

311. Seminar in Far Eastern Politics.—Open to students who have completed course 211 or its equivalent. 3 s.h. ASSISTANT PROFESSOR LINEBARGER

[Not offered in 1945-46]

325. Seminar in Comparative Government.—Open to students who have completed course 225-226 or its equivalent. 3 s.h. ASSOCIATE PROFESSOR COLE

[Not offered in 1945-46]

328. Seminar in International Law.—Open to students who have completed course 227-228 or its equivalent. 3 s.h. PROFESSOR WILSON

341. Seminar in Public Administration.—Open to students who have completed course 241-242 or its equivalent. 3 s.h. ASSISTANT PROFESSOR WALTER

RELATED COURSES IN OTHER DEPARTMENTS

- Economics 216. Economic Functions of the State.—3 s.h.**
 PROFESSOR HOOVER
- Economics 233. State and Local Finance.—3 s.h.** PROFESSOR RATCHFORD
- Economics 234. Federal Finance.—3 s.h.** PROFESSOR RATCHFORD
- Economics 237-238. Statistical Methods.—6 s.h.**
 ASSISTANT PROFESSOR SMITH
- Economics 265. International Trade and Finance.—3 s.h.**
 PROFESSOR VON BECKERATH AND ASSOCIATE
 PROFESSOR LESTER
- History 215-216. Foreign Policy and Diplomacy of the United States.—**
 6 s.h. PROFESSOR CLYDE
 [Not offered in 1945-46]
- History 217-218. Europe since 1870.—6 s.h.** PROFESSOR CARROLL
- History 234. Political and Social Problems in the Hispanic American**
Republics.—3 s.h. PROFESSOR LANNING
- Philosophy 208. Political Philosophy.—3 s.h.** ASSOCIATE PROFESSOR MORGAN
 [Not offered in 1945-46]

PSYCHOLOGY

PROFESSOR LUNDHOLM, CHAIRMAN—201 SCIENCE BUILDING; PROFESSOR ZENER,
 DIRECTOR OF GRADUATE STUDIES—217A SCIENCE BUILDING; PROFESSOR RHINE;
 ASSOCIATE PROFESSOR ADAMS AND VISITING ASSOCIATE PROFESSOR
 CATTELL; ASSISTANT PROFESSOR KEMP; DR. KOCH

The aim of the Department is to provide opportunity for advanced study in a variety of fields of theoretical and experimental psychology.

In the direction of research done by graduate students, two general aims are kept in mind: that of training and that of fruitful achievement. The work for the Master's degree weights the first; that for the Ph.D. the second of these aims. There is wide tolerance of subject matter for research, and encouragement is given to originality and freedom in thinking.

It is expected that the graduate student will have entered with preparation equivalent to the undergraduate courses offered by the Department. A reading knowledge of French and German is desirable from the beginning, and in no case should the acquisition of this be postponed later than the beginning of the second year.

No limitation is laid down as to the departments in which it is possible to minor. The fields most usually relevant to graduate study in psychology, however, are education, sociology and anthropology, endocrinology, physiology, and philosophy.

FOR SENIORS AND GRADUATES

- 202. Psychology of Aesthetics.—3 s.h.** PROFESSOR LUNDHOLM
- 204. Motivation and Learning.—**Social and biological conditions of the operation, modification, organization of motivational systems. 3 s.h.
 PROFESSOR ZENER
- 206. Social Psychology.—**Kinds of membership character; psychology of social movements; propaganda; revolution; nationalism; war. 3 s.h.
 [Fall semester only] ASSOCIATE PROFESSOR ADAMS AND DR. KOCH

207. Psychology of Memory, Thinking, Perceiving.—A study of thinking, remembering, and perceiving with reference to the basic processes involved and their determining conditions, with emphasis upon organization, meaning, and motivation. 3 s.h. PROFESSOR ZENER

209. Experimental Methods in Human Psychology.—A study of methods for the control and recording of essential variables in human psychological situations, with consideration of the relation of experimental techniques to problem formulation and psychological theory. Laboratory and lectures. 4 s.h. [Not offered in 1945-46] PROFESSOR ZENER

212. Physiological Psychology.—3 s.h. ASSISTANT PROFESSOR KEMP
[Not offered in 1945-46]

215. Developmental Psychology.—The environmental forces conditioning the development of personality structure and the mechanisms contributing to psychological growth; critical periods in character formation from infancy to senescence. 3 s.h. (E) ASSOCIATE PROFESSOR ADAMS
[Not offered in 1945-46]

221. The Experimental and Statistical Study of Personality.—3 s.h. [Not offered in 1945-46] VISITING ASSOCIATE PROFESSOR CATTELL

223. Abnormal Psychology.—3 s.h. PROFESSOR LUNDHOLM
[Limited registration. Admission only after consultation with instructor.]

226. Psychology: Historical and Theoretical.—3 s.h. PROFESSOR ZENER
[Not offered in 1945-46]

228. Psychology of Belief.—3 s.h. PROFESSOR LUNDHOLM
[Not offered in 1945-46]

FOR GRADUATES

302. Seminar.—3 s.h. PROFESSOR LUNDHOLM
[Not offered in 1945-46]

303-304. Research.—2 or 3 s.h. PROFESSORS LUNDHOLM, RHINE, AND ZENER; ASSOCIATE PROFESSOR ADAMS; AND VISITING ASSOCIATE PROFESSOR CATTELL

306. Seminar in Child Psychology.—2 or 3 s.h. [Not offered in 1945-46] ASSOCIATE PROFESSOR ADAMS

307. Seminar in Psychology of Personality.—3 s.h. PROFESSOR RHINE
[Not offered in 1945-46]

309. Theory of Learning.—3 s.h. ASSOCIATE PROFESSOR ADAMS
[Not offered in 1945-46]

310. Seminar: Selected Problems in the Dynamics of Behavior.—3 s.h. PROFESSOR ZENER

313. Seminar in Parapsychology.—3 s.h. (E) PROFESSOR RHINE
[Not offered in 1945-46]

RELATED COURSES IN OTHER DEPARTMENTS

Education 208A. Mental Tests and Applications.—3 s.h. ASSISTANT PROFESSOR VAN ALSTYNE

Education 208B. Practicum.—2 s.h. ASSISTANT PROFESSOR VAN ALSTYNE

Education 209. Statistical Methods Applied to Education.—3 s.h. ASSOCIATE PROFESSOR SCATES

Education 218. Educational Implications of Genetic Psychology.—3 s.h. [Not offered in 1945-46] PROFESSOR BROWNE

- Education 227. The Psychology of Learning: Problems.—3 s.h.
[Not offered in 1945-46] ASSISTANT PROFESSOR EASLEY
- Education 228. The Psychology of Learning: Theoretical and Experimental.—3 s.h.
[Not offered in 1945-46] ASSISTANT PROFESSOR EASLEY
- Education 258. Educational Measurements.—3 s.h.
ASSOCIATE PROFESSOR SCATES
- Education 317. Advanced Educational Psychology.—3 s.h.
PROFESSOR BROWNELL
- Education 320. Advanced Educational Statistics.—3 s.h.
ASSOCIATE PROFESSOR SCATES
- Philosophy 223. Contemporary Philosophy.—3 s.h. PROFESSOR WIDGERY
- Philosophy 231-232. Philosophy of Science.—6 s.h.
[Not offered in 1945-46] ASSOCIATE PROFESSOR LEONARD
- Philosophy 241. Logic.—3 s.h. ASSOCIATE PROFESSOR LEONARD
- Philosophy 242. Scientific Methodology.—3 s.h.
ASSOCIATE PROFESSOR LEONARD
- Sociology 205. Social Pathology.—3 s.h. PROFESSOR JENSEN
- Sociology 206. Criminology.—3 s.h. PROFESSOR JENSEN
- Sociology 212. Child Welfare.—3 s.h. PROFESSOR JENSEN
[Not offered in 1945-46]
- Sociology 217. Race and Culture.—3 s.h. ASSOCIATE PROFESSOR THOMPSON
- Sociology 239. Acculturation and Cultural Synthesis.—3 s.h.
ASSOCIATE PROFESSOR GILLIN
- Sociology 317. Seminar in Anthropology.—1 to 3 s.h.
ASSOCIATE PROFESSOR GILLIN
- Sociology 350. Seminar in Sociology.—1 to 3 s.h. PROFESSOR JENSEN
- Zoology 229. Endocrinology.—4 s.h. ASSISTANT PROFESSOR JEFFERS
- Zoology 321. General Physiology.—4 s.h.
- Zoology 324. Advanced Physiology.—4 s.h.
- Zoology 341. Historical and Philosophical Zoology.—2 s.h.
PROFESSOR HARGITT
- Zoology 351-352. Zoological Journal Club.—2 s.h. STAFF
- Zoology 355-356(e). Seminar: Ecology, Parasitology, and Behavior.
PROFESSOR PEARSE

RELIGION

PROFESSOR SMITH, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—310 LIBRARY;
PROFESSORS BRANSCOMB, RUSSELL, AND STINESPRING; ASSOCIATE
PROFESSORS CLARK, CUSHMAN, AND PETRY

Graduate study in religion leading to the degrees of Master of Arts and Doctor of Philosophy may be pursued in three fields: (1) Biblical Studies; (2) Studies in Church History; and (3) Studies in Christian Thought. A student majoring in one of these fields will be expected to take such courses in one or both of the other fields as may be necessary to give an adequate understanding of his own field of specialization.

Students pursuing work in the field of religion will be expected to take

such other courses in cognate fields as will aid in the understanding of their field of specialization. Special attention is called to the Division of Ancient Languages and Literature for those working in Field I; to the Department of History for those working in Field II; and to the Department of Philosophy and the Department of Sociology for those working in Field III.

FIELD I. BIBLICAL STUDIES

201-202. First Hebrew.—The principles and structure of the Hebrew language with translation of selected Old Testament narratives. M.W.F. at 10:10. 6 s.h.

205-206. Arabic.—Introduction to the classical language and literature with some attention to the modern idiom. Hours to be arranged. 6 s.h.

[Not offered in 1945-46]

PROFESSOR STINESPRING

207-208. Second Hebrew.—Samuel or Kings the first semester and Isaiah the second. M.W.F. at 9:10. 6 s.h.

PROFESSOR STINESPRING

301. Old Testament Theology.—The religious and ethical teachings of the books of the Old Testament in their historical development. Prerequisite: Old Testament 203-204. M.W.F. at 10:10. 3 s.h.

PROFESSOR RUSSELL

304. Aramaic.—A study of the Aramaic portions of the Old Testament, and selected passages from the Targums, Midrashes, and Talmuds. Hours to be arranged. 3 s.h.

PROFESSOR STINESPRING

305. Third Hebrew.—A study of late Hebrew prose, with readings from Chronicles, Ecclesiastes, and the Mishnah. Hours to be arranged. 3 s.h.

[Not offered in 1945-46]

PROFESSOR STINESPRING

309. History of the Ancient Near East.—A specialized study of the civilizations of Egypt, Palestine, Syria, and Mesopotamia in light of Biblical archaeology. T.Th.S. at 10:10. 3 s.h.

PROFESSOR STINESPRING

310. Old Testament Prophecy.—The prophetic movement in Israel with special emphasis on the prophets of the eighth century B.C. T.Th.S. at 9:10. 3 s.h.

PROFESSOR STINESPRING

217. The New Testament in Greek.—Extensive reading of the Greek critical text, with special consideration of variant interpretations. M.W.F. at 9:10. 3 s.h.

ASSOCIATE PROFESSOR CLARK

218. Galatians and I Corinthians.—A detailed study of two of Paul's major epistles. The course will be based on the Greek text. T.Th.S. at 9:10. 3 s.h.

ASSOCIATE PROFESSOR CLARK

220. I Peter and the Gospel of John.—A detailed study of two of the non-Pauline writings of the New Testament. The course will be based on the Greek text. T.Th.S. at 9:10. 3 s.h.

ASSOCIATE PROFESSOR CLARK

[Not offered in 1945-46]

311. The Life and Teachings of Jesus.—Prerequisite: New Testament 213-214. M.W.F. at 10:10. 3 s.h.

PROFESSOR BRANSCOMB

312. New Testament Theology.—The religious teaching of the books of the New Testament. Prerequisite: New Testament 213-214. M.W.F. at 10:10. 3 s.h.

PROFESSOR RUSSELL

313. The Apostolic Fathers.—A study of the Christian development from Clement of Rome to Polycarp, with readings of the Greek text. T.Th.S. at 10:10. 3 s.h.

ASSOCIATE PROFESSOR CLARK

314. Early Christian Apologists.—A study of Christian apologetic in the second century, with readings of the Greek text. M.W. at 2:00. 3 s.h.

PROFESSOR BRANSCOMB

315. **Judaism at the Beginning of the Christian Era.**—A study of Judaism from the time of Ben Sirach to the composition writing of the Mishnah. M.W. at 2:00. 3 s.h.

316. **Hellenistic Religions at the Beginning of the Christian Era.**—T.Th.S. at 10:10. 3 s.h. ASSOCIATE PROFESSOR CLARK

318. **Text of New Testament.**—A study of the materials for the reconstruction of the text, the principles of textual criticism, and the history of the text. Practical exercises in the use of manuscripts and facsimiles will be given. T.Th.S. at 12:10. 3 s.h. ASSOCIATE PROFESSOR CLARK

[Not offered in 1945-46]

320. **Rabbinic Literature.**—Critical readings in Rabbinic Literature of the early centuries of the Christian Era. M.W. at 2:00. 3 s.h.

RELATED COURSES IN OTHER DEPARTMENTS

Greek 257. **Social and Cultural History of the Hellenistic World from Alexander to Augustus.**—3 s.h. PROFESSOR ROGERS

Latin 258. **Social and Cultural History of the Graeco-Roman World.**—3 s.h. PROFESSOR ROGERS

FIELD II. STUDIES IN CHURCH HISTORY

328. **The Church in Europe since 1800.**—Emphasis is placed on the relation of the Church to the social, economic, and political life of Modern Europe. Prerequisite: Church History 233-234. M.W.F. at 11:30. 3 s.h.

ASSOCIATE PROFESSOR PETRY

331. **The Social Message of the Early and Medieval Church.**—A study of the social teachings and contributions of the Christian Church prior to the Protestant Reformation. Prerequisite: Church History 233-234. T.Th.S. at 10:10. 3 s.h. ASSOCIATE PROFESSOR PETRY

332. **The Medieval Church.**—Outstanding characteristics of the Medieval Church, emphasizing theory, polity, institutions, sacraments, and worship. Prerequisite: Church History 233-234. T.Th.S. at 10:10. 3 s.h.

ASSOCIATE PROFESSOR PETRY

333. **A History of Christian Renunciation in the Middle Ages.**—A study of the renunciatory ideal and spiritual practices with special reference to Benedictines, Franciscans, Lowland Mystics, and leading seculars. Prerequisite: Church History 233-234. M.W.F. at 12:10. 3 s.h.

ASSOCIATE PROFESSOR PETRY

334. **Church Reformers and Christian Unity.**—The work of such reformers as Marsilius of Padua, William of Ockham, John Gerson, Pierre d'Ailly, and Nicholas of Cusa in relation to ecclesiastical schism and the search for Christian unity through representative councils. Prerequisite: Church History 233-234. T.Th.S. at 11:10. 3 s.h.

ASSOCIATE PROFESSOR PETRY

RELATED COURSES IN OTHER DEPARTMENTS

History 221-222. **The Age of the Renaissance.**—6 s.h.

ASSOCIATE PROFESSOR NELSON

History 223-224. **Medieval Institutions and Culture.**—6 s.h.

ASSISTANT PROFESSOR QUINN

History 225-226. **The Age of the Reformation.**—6 s.h.

ASSOCIATE PROFESSOR NELSON

FIELD III. STUDIES IN CHRISTIAN THOUGHT

221. Platonism and Christianity.—An analysis of Plato's religious philosophy and a survey of its continuing influence in Hellenistic and Christian thought. Prerequisite: six semester hours in philosophy or its equivalent. 3 s.h. ASSOCIATE PROFESSOR CUSHMAN

[Not offered in 1945-46]

222. Theology and Philosophy in the Nineteenth Century.—A study of Protestant thought from Schleiermacher to Troeltsch, with special attention to the reciprocal relations between theology and metaphysics. 3 s.h.

ASSOCIATE PROFESSOR CUSHMAN

291. Christian Ethics I.—A historical and systematic study of Christian conceptions of the moral life. T.Th.S. at 12:10. 3 s.h. PROFESSOR SMITH

292. Christian Ethics II.—A critical consideration of selected contemporary social problems from the viewpoint of the Christian ethic. T.Th.S. at 12:10. 3 s.h. PROFESSOR SMITH

321. Philosophical Theology I.—An inquiry into the theory of religious knowledge, followed by a study of theism, human values, and the problem of evil. M.W.F. at 10:10. 3 s.h. ASSOCIATE PROFESSOR CUSHMAN

322. Philosophical Theology II.—An investigation of the relation of philosophy and Christianity, including a consideration of reason and revelation, a religious interpretation of history, and redemption. M.W.F. at 10:10. 3 s.h.

ASSOCIATE PROFESSOR CUSHMAN

323 The Christian Conception of the Church.—A historical survey of the ways in which the Christian tradition has interpreted the idea of the Church, followed by a critical analysis of the theological implications of such contemporary problems as church and state, church and culture, and the ecumenical movement. Prerequisite: Christian Doctrine 321. M.W.F. at 11:30. 3 s.h.

[Not offered in 1945-46]

329. Seminar in Historical Theology.—Selected problems in the history of Christian thought, with special reference to the relation between theology and philosophy. M. at 7:30 P.M. 2 s.h.

366. Seminar in Philosophy of Religious Education.—A critical study of the basic concepts and theories underlying religious education. T. at 3:30. 2 s.h. PROFESSOR SMITH

[Not offered in 1945-46]

393. Religious Thought in Colonial America.—A survey of the main developments in colonial religious thought, including Christian ethics. M.W.F. at 11:10. 3 s.h. PROFESSOR SMITH

394. Religious Thought in Modern America.—A survey of the major currents in later American religious and ethical thought, with special attention to liberal Protestantism. M.W.F. at 11:10. 3 s.h. PROFESSOR SMITH

396. Modern American Christology.—An analysis of the historical development of modern American conceptions of Jesus. A seminar for advanced students. T. at 3:30. 2 s.h. PROFESSOR SMITH

397. Seminar in American Religious Thought.—T. at 3:30. 2 s.h.

PROFESSOR SMITH

398. Seminar in Christian Ethics.—A critical study of selected problems. T. at 3:30. 2 s.h. PROFESSOR SMITH

[Not offered in 1945-46]

399. Seminar in Theology and Ethics.—Readings and critical analysis of the theological and ethical thought of the main figures of the nineteenth century, including both European and American thinkers. T. at 3:30. 2 s.h.

[Not offered in 1945-46]

PROFESSOR SMITH

OTHER COURSES

Certain other courses listed in this bulletin and in the *Bulletin of the Divinity School* may be taken for graduate credit provided that at the time of registration they are approved by the Director of Graduate Studies in Religion and by the Dean of the Graduate School.

ROMANCE LANGUAGES

PROFESSOR WEBB, CHAIRMAN—107 GRAY BUILDING; PROFESSOR JORDAN, DIRECTOR OF GRADUATE STUDIES—106 GRAY BUILDING; PROFESSORS COWPER AND LUNDEBERG; ASSOCIATE PROFESSOR WALTON; ASSISTANT PROFESSORS DAVIS AND REID

To be eligible for graduate study in this Department, the student should normally have credit for four years of college work in the chosen language, or eighteen hours beyond the conventional two units offered at entrance to college. In addition to this minimum requirement, one semester of composition and grammar review is highly desirable.

It is recommended that candidates for the Master's degree take a second Romance Language for the minor subject.

A candidate for the Ph.D. degree should be equipped to follow graduate courses in a second Romance Language. Some training in Romance Linguistics will be required for this degree, the amount to be determined by the Department upon consideration of the student's preparation in the field.

FRENCH

FOR SENIORS AND GRADUATES

213. French Classicism.—From Malherbe to La Bruyère. 3 s.h.

ASSOCIATE PROFESSOR WALTON

214. French Classicism.—From La Bruyère to the Encyclopedists and Beaumarchais. 3 s.h.

ASSOCIATE PROFESSOR WALTON

215-216. The Modern French Novel.—A survey of the novel form from the seventeenth to the twentieth century, with particular attention to the analysis of fundamental literary tendencies; classicism, rationalism, romanticism, and realism. 6 s.h.

PROFESSOR JORDAN

217. French Phonetics.—French sounds and French spelling; pronunciation drills; exercises in phonetic transcription; and dictation; diction; aural comprehension. 3 s.h.

PROFESSOR WEBB

218. Materials and Methods.—History of the teaching of French; methods; the course of study; analysis and criticism of representative texts; tests and examinations; objectives in the light of teaching conditions, equipment and future application. 3 s.h.

PROFESSOR WEBB

219. Old French.—An introduction to the Old French language and literature. The *Chanson de Roland*—*Aucassin et Nicolette*. 3 s.h.

PROFESSOR COWPER

220. Old French.—Types of Old French literature. The romances of chivalry. 3 s.h.

PROFESSOR COWPER

227. French Poetry since Théophile Gautier.—Parnassianism and Symbolism. 3 s.h.

ASSOCIATE PROFESSOR WALTON

232. Rousseau and the Beginnings of Romanticism.—3 s.h.

PROFESSOR COWPER

223. Main Currents of Modern French Literature.—A survey of the principal literary tendencies from the seventeenth to the nineteenth century. Selected illustrative readings from leading authors. 3 s.h. PROFESSOR WEBB

FOR GRADUATES

317. History of the French Language.—3 s.h. PROFESSOR COWPER

323-324. Realism and Naturalism.—Literary doctrines and practices in the generation of 1850-90, with particular reference to the background of scientific thinking. 6 s.h. PROFESSOR JORDAN

325-326. French Literature in the Sixteenth Century.—6 s.h. ASSOCIATE PROFESSOR WALTON

328. Anatole France.—3 s.h. ASSOCIATE PROFESSOR WALTON

331. Diderot and the Encyclopédie.—3 s.h. PROFESSOR COWPER

333-334. Contemporary French Literature.—A study of the main currents in the twentieth century, with consideration chiefly of authors who have contributed most to contemporary tendencies. 6 s.h. PROFESSOR JORDAN

350. Nineteenth-Century French Criticism.—A survey of critical doctrines and practices from Saint-Beuve to the end of the century. 3 s.h. PROFESSOR JORDAN

Of the courses listed above, the following will be offered during the first semester of the year 1945-46: 218, and four courses from the group 213, 215, 219, 233, 323, 325, 333. During the second semester, 217, and four courses from the group 214, 216, 220, 227, 232, 324, 326, 334, 350.

SPANISH

FOR SENIORS AND GRADUATES

253. Spanish Phonetics.—The sounds of the Spanish language; sound changes; exercises in transcription; regional pronunciation; intonation; limited use of electrical recording machines. 3 s.h. PROFESSOR LUNDEBERG

255-256. Studies in Spanish-American Literature.—The course will center about the development of national and continental consciousness in Spanish-American literary history from colonial times to the present day, although special emphasis will be given to modern literature. Extensive individual investigations and reports with adequate training in bibliography. 6 s.h.

[Not offered in 1945-46]

ASSISTANT PROFESSOR REID

257-258. Old Spanish Language and Literature.—First semester: the historic development of the language together with illustrative readings. Second semester: the literature of the Middle Ages and early Renaissance. 6 s.h.

ASSISTANT PROFESSOR DAVIS

260. Advanced Syntax and Composition.—A systematic review of Spanish syntax; free oral and written composition; selected translation assignments; epistolary forms, etc. Conducted mainly in Spanish. 3 s.h.

PROFESSOR LUNDEBERG

261-262. The Modern Spanish Novel.—The evolution of the novel from the *Costumbrista* writers through the generation of 1898. 6 s.h.

[Not offered in 1945-46]

PROFESSOR LUNDEBERG

265. Golden Age Literature: Cervantes.—The *Novelas ejemplares*; analytic study of the tales, their style, literary importance and influence. 3 s.h.

PROFESSOR LUNDEBERG

266. Golden Age Literature.—Golden Age Drama.—Study of representative plays of the period, with emphasis on the theme of honor. 3 s.h.

PROFESSOR LUNDEBERG

SOCILOGY AND ANTHROPOLOGY

PROFESSOR JENSEN, DIRECTOR OF GRADUATE STUDIES—203 CARR BUILDING;
 PROFESSOR HART; ASSOCIATE PROFESSORS GILLIN AND THOMPSON

205. Social Pathology.—A study of the causes, extent, significance, and constructive treatment of the principal forms of pathology in modern society: poverty, physical defectiveness, malnutrition, mental deficiency, mental disease, undirected leisure activities, and unstandardized commercial recreation, alcoholism, prostitution, vagrancy, and delinquency. Prerequisite: course 91-92, 101, or 131-132. 3 s.h. PROFESSOR JENSEN

206. Criminology.—A study of the original tendencies of man and the problem of socializing these tendencies; the relations of physical and mental defectiveness and untoward influences in the home and neighborhood to crime; the development of criminological theory and procedure, emphasizing penal and reform methods, and especially modern methods of social treatment and prevention of crime. Prerequisite: course 91-92, 101, or 131-132. 3 s.h.

PROFESSOR JENSEN

212. Child Welfare.—A study of heredity and environment as factors in personality development; infant conservation; welfare responsibilities of the school, emphasizing the physical and mental well-being of the child, play, and compulsory and industrial education; child labor, diagnosis and treatment of delinquency; care of the dependent and neglected child; child-caring agencies, public and private; and a community program of child welfare. Prerequisite: course 91-92, 101, or 131-132. 3 s.h.

PROFESSOR JENSEN

[Offered in Summer Session, 1945]

213. Constructive Social Policies.—An intensive study of the theories and legislation dealing with such problems as compensation, vocational re-education, and other methods of social insurance and social improvement. 2 s.h.

[Not offered in 1945-46]

PROFESSOR JENSEN

215. Rural Sociology.—A study of the societies developed by people who settle the land and exploit it for a livelihood; patterns of settlement; culture; peasant, farmer, and folk societies; and rural institutions. Special attention is given to the plantation and the rural problems of the South. Prerequisite: course 91-92, 101, or 131-132. 3 s.h.

ASSOCIATE PROFESSOR THOMPSON

216. Urban Sociology.—The city and civilization. This course studies the inner life and problems of the city and its function in the larger regional and world community which it nucleates. Prerequisite: course 91-92, 101, or 131-132. 3 s.h.

ASSOCIATE PROFESSOR THOMPSON

217. Race and Culture.—An analytical study of racial and cultural relations and problems of the Indian, the Negro, and other minority groups in historical and contemporary society. Prerequisite: course 91-92, 101, or 131-132. 3 s.h.

ASSOCIATE PROFESSOR THOMPSON

218. Community and Society.—This course studies the dual aspect in which social life presents itself: (1) as a population group or groups, and (2) as a constellation of institutions. Prerequisite: course 91-92, 101, or 131-132. 3 s.h.

ASSOCIATE PROFESSOR THOMPSON

225. Statistical Methods in Sociology.—Deals with the processes of definition, classification, measurement, tabulation, association, correlation, comparison of averages and of percentages, causation, prediction, preparation and interpretation of charts and graphs as applied to and illustrated by sociological data. Prerequisite: course 91-92, 101, or 131-132. 3 s.h.

PROFESSOR HART

227. Emigration and Immigration.—A study of territorial movements of population with special reference to Europe and America. Causes and extent of migration; its effect upon American and European society; origin and characteristics of immigrant groups and their organization in the New World; problems, agencies, and processes of assimilation. Prerequisite: course 91-92, 101, or 131-132. 3 s.h.

PROFESSOR JENSEN

[Not offered in 1945-46]

236. Social Ethics.—A study of sociological fundamentals underlying ethics, including the controversy between materialistic and idealistic social thinkers, the nature of personalities and of social organization, the nature of social values, types of social interaction and their effects upon general social values, underlying principles and facts of social change, and the bearings of all these upon certain social problems. 3 s.h.

PROFESSOR HART

237. Indians of North America.—Origin and early developments of aboriginal populations; development and distribution of tribes, their customs and languages; Indian influences on Euro-American culture; present status of the Indians; considerations of the culture-environment relationships in the light of comparison between aboriginal and modern American life. Prerequisite: course 131. 3 s.h.

ASSOCIATE PROFESSOR GILLIN

[Not offered in 1945-46]

238. Anthropological Backgrounds of Latin America.—The aboriginal races and cultures of Latin America; origins; development; distribution and variations at the time of the Discovery; Iberian and African racial importations of the past four hundred years; the contemporary fusion and mixtures in such areas as Brazil, the Andean highlands, etc., and their relation to certain contemporary problems. Prerequisite: course 131, or equivalent. 3 s.h.

ASSOCIATE PROFESSOR GILLIN

239. Acculturation and Cultural Synthesis.—A study of the results of contact between preliterate and literate cultures in various parts of the world and the prospects for the future. Prerequisite: course 131, or equivalent. 3 s.h.

ASSOCIATE PROFESSOR GILLIN

240. The Peoples of Africa.—A survey of the aboriginal peoples and cultures of Africa from the earliest times to the present day with special attention to the areas of origin of the American Negro. Prerequisite: course 131. 3 s.h.

[Not offered in 1945-46]

ASSOCIATE PROFESSOR GILLIN

252. Education and Social Control.—A study of education as an agency of social progress from primitive times to the present. Prerequisite: course 91-92, 101, or 131-132. 2 s.h.

[Not offered in 1945-46]

281. Public Opinion.—The fundamental problems and processes of social control and social change in democratically organized groups; the nature and development of public opinion, its cultural and psychological bases, the role of leadership, pressure groups, prestige, propaganda, censorship, advertising, the press, the motion picture, the radio, the graphic arts, etc., in its management and dissemination. 3 s.h.

PROFESSOR JENSEN

[Not offered in 1945-46]

FOR GRADUATES

317. Seminar in Anthropology.—A seminar for advanced students who wish to pursue individual studies in racial or cultural anthropology. 1 to 3 s.h. *each semester.*

ASSOCIATE PROFESSOR GILLIN

319. Principles of Sociology.—A critical study of sociological theory. The sociological theories of recent writers will be critically examined with a view to laying the foundation for a constructive theory of the social life in modern biology and psychology. Discussions and papers by the class. 3 s.h.

[Not offered in 1945-46]

PROFESSOR JENSEN

320. History of Sociological Theory.—Lectures on the development of social thought from Aristotle to the present; the social philosophies of Plato, Aristotle, St. Augustine, Thomas Aquinas, Machiavelli, Bodin, Hobbes, Locke, Vico, Montesquieu, Rousseau, Condorcet, and the sociological systems of Comte, Spencer, Schaeffle, Lilienfeldt, Gumpowicz, Ratzenhofer, and Ward will, among others, be considered. A large amount of assigned reading will be required in this course. The student is advised to correlate this course with related courses in economics, history, political science, and philosophy. 3 s.h.
PROFESSOR JENSEN

322. Methods of Social Research.—A study of the various methods of research and investigation that can be applied to the study of social phenomena. 3 s.h.
PROFESSOR JENSEN

326. Operational Sociology.—A seminar for advanced students, presenting an operational philosophy of social science as a basis for research in sociology and religion. Examples of operational procedure in these fields will be analyzed. Assigned projects will embody applications of the operational method. Prerequisite: one of the following: Sociology 225, or Economics 237-238, or Education 209, or Mathematics 74 or 275, or some other acceptable course in statistics. 3 s.h.
PROFESSOR HART

330. Seminar.—Research work upon special problems in sociology and anthropology. 1 s.h. *each semester.*
PROFESSORS ELLWOOD, HART, AND JENSEN; ASSOCIATE
PROFESSORS GILLIN AND THOMPSON

340. Seminar.—Special problems in race relations, urban and rural life, and the sociology of the South generally. 3 s.h. *each semester.*
ASSOCIATE PROFESSOR THOMPSON

350. Seminar in Applied Sociology.—Special research problems in social pathology, child welfare, criminology, and related topics. 1 to 3 s.h. *each semester.*
PROFESSOR JENSEN

351. Seminar in Medical Sociology.—The basic principles of the various medical specialties as applied to the problems of marriage and the family. Open only to graduate students in sociology, with the consent of the instructor and of the Director of Graduate Studies. Given by the Staff of the Medical School under the direction of Dr. Bayard Carter, M.D. 2 s.h.
[Not offered in 1945-46]

352. Seminar in Family Law.—A seminar approach to the efforts of the social sciences, including law, to deal with the intricate and perplexing problems of the modern family. Readings are assigned in legal and sociological material. 2 s.h.
PROFESSOR BRADWAY

360. Seminar in Social Statistics.—Special research problems in social statistics, social ethics, the family, or related topics. 1 to 3 s.h. *each semester.*
PROFESSOR HART

RELATED COURSES IN OTHER DEPARTMENTS

Economics 215. Economic Systems.—3 s.h. PROFESSOR HOOVER

Economics 216. Economic Functions of the State.—3 s.h.
PROFESSOR HOOVER

Economics 217. Population Problems and Resources.—3 s.h.
PROFESSOR SPENGLER

Philosophy 205. Philosophy of History.—3 s.h. PROFESSOR WIDGERY
[Not offered in 1945-46]

Political Science 223. Political Thought to the Seventeenth Century.—
3 s.h. PROFESSOR WILSON

Political Science 224. Modern Political Theory.—3 s.h. PROFESSOR WILSON

Psychology 206. Social Psychology.—3 s.h.

ASSOCIATE PROFESSOR ADAMS AND DR. KOCH

ZOOLOGY

PROFESSOR GRAY, CHAIRMAN—218 BIOLOGY BUILDING; PROFESSOR HARGITT,
DIRECTOR OF GRADUATE STUDIES—326 BIOLOGY BUILDING; PROFESSORS
HALL AND PEARSE; ASSISTANT PROFESSORS BOOKHOUT,
JEFFERS, AND JOHNSON

For admission to candidacy for the Master's degree the applicant should have completed an undergraduate major in zoology or its equivalent (courses in general science and botany cannot be counted as a part of the zoology major). This normally amounts to about twenty-four semester hours of course work, which should be distributed among the various fields of zoology and must include comparative anatomy of vertebrates or vertebrate zoology, physiology, and embryology. The major work must have been passed with good grades. At least one year of chemistry is required, and a year of physics is recommended. Work for the degree will require eighteen hours in advanced courses in zoology, six hours in a minor department, and a thesis.

For admission to candidacy for the Ph.D. degree it is expected that the undergraduate major in zoology will amount to about thirty-two hours which have been passed with good grades. Comparative anatomy of vertebrates or vertebrate zoology, physiology, and embryology must be included in the undergraduate major. At least two years of chemistry and one year of botany are required and one year of physics is recommended; for certain fields organic chemistry is desirable. Toward the end of the first year of residence a committee will be appointed for each candidate, which will review his preparation and set specific requirements to be met. This program will include one or more graduate courses in each of several fields of zoology; broad knowledge of science in general and of biology in particular, attained by wide reading; required major and minor courses, and research; and a satisfactory dissertation which is the result of original work. The Department requires that a first draft of the dissertation shall be completed by March 15 of the year in which the degree is to be conferred. At least one year before the degree is to be conferred each candidate must pass an examination on the whole field of zoology and the minor.

FOR SENIORS AND GRADUATES

204 Advanced Parasitology.—Lectures, conferences, readings, and laboratory work dealing with practical and theoretical matters relating to animal parasites. Offered in alternate years. Prerequisite: Zoology 161. 4 s.h.
PROFESSOR PEARSE

222. Entomology.—Anatomy, physiology, embryology, and classification of insects. Prerequisite: one year of zoology. 4 s.h. PROFESSOR GRAY

224. Vertebrate Zoology.—A study of the life histories, adaptations, ecology, and classification of vertebrate animals. Prerequisite: Zoology 53. 4 s.h. PROFESSOR GRAY

229. Endocrinology.—The structure, physiology, and embryology of the endocrine glands. Lectures, reading assignments, reports, and laboratory work. Prerequisites: Zoology 53, 92. 4 s.h. ASSISTANT PROFESSOR JEFFERS

274. Invertebrate Zoology.—A study of structure, functions, and habits of invertebrate animals under normal and experimental conditions. Field trips will be made to study, collect, and classify animals in their natural habitats. Offered in alternate years. Prerequisites: Zoology 1 and 2. 4 s.h.

ASSISTANT PROFESSOR BOOKHOUT

276. Protozoology.—The morphology, physiology, taxonomy, and culture of Protozoa. Offered in alternate years. Prerequisites: Zoology 1 and 2. 4 s.h.

ASSISTANT PROFESSOR BOOKHOUT

FOR GRADUATES

303. Ecology.—Relation of animals to environment. Lectures, readings, reports, conferences; laboratory and field work. Offered in alternate years. 4 s.h.

PROFESSOR PEARSE

306. Advanced Ecology.—Lectures, conferences, field work, and methods. Offered in alternate years. Prerequisite: Zoology 303. 4 s.h.

PROFESSOR PEARSE

307. Foundations of Zoology.—Lectures, readings, and discussions on the background and training essential for a professional zoologist. Offered in alternate years. 2 s.h.

PROFESSOR PEARSE

321. General Physiology.—Comparative study of functions in all animal groups, especially vertebrates. Lectures, laboratory work, and conferences. 4 s.h.

324. Advanced Physiology.—Present-day problems in physiology, with laboratory projects involving precise instrumental analyses. Lectures, conferences, and laboratory work. Prerequisite: Zoology 151 or 321. 4 s.h.

327. Experimental Embryology.—Lectures, assigned readings, and reports. Offered in alternate years. Prerequisites: Zoology 92, 151 or 321. 4 s.h.

341. Historical and Philosophical Zoology.—Readings and discussions. A critical study of the developments of modern biological concepts and theories, their past and present significance. Offered in alternate years. 2 s.h.

PROFESSOR HARGITT

343. Cytology.—The structure of the cell. Lectures, readings, reports, and laboratory work. Offered in alternate years. Prerequisites: Zoology 53, 92, 156, or equivalents. 4 s.h.

PROFESSOR HARGITT

351-352. Zoological Journal Club.—A weekly meeting of graduate students and Faculty to hear reports and to discuss biological facts, theories, and problems. One hour a week throughout the year. Required of all graduate students who major in zoology. 2 s.h.

STAFF

353-354. Research.—Students who have had proper training may carry on research under direction of members of the Staff, in the following fields:

(a) Embryology; Endocrinology.

(b) Comparative and General Physiology.

(c) Histology; Cytology.

PROFESSOR HARGITT

(d) Invertebrate Zoology.

ASSISTANT PROFESSOR BOOKHOUT

(e) Ecology; Parasitology; Behavior.

PROFESSOR PEARSE

(f) Vertebrate Zoology; Entomology.

PROFESSOR GRAY

Hours and credits to be arranged.

355-356. Seminar.—Special seminar courses in particular fields are given by various professors when the number of students makes them desirable. Hours and credits to be arranged.

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|---|------------------------------|
| (a) Embryology; Endocrinology. | |
| (b) Comparative and General Physiology. | |
| (c) Histology; Cytology. | PROFESSOR HARGITT |
| (d) Invertebrate Zoology. | ASSISTANT PROFESSOR BOOKHOUT |
| (e) Ecology; Parasitology; Behavior. | PROFESSOR PEARSE |
| (f) Vertebrate Zoology; Entomology. | PROFESSOR GRAY |

COURSES IN THE MEDICAL SCHOOL OPEN TO GRADUATE STUDENTS

PROFESSORS EADIE, MARKEE, PERLZWEIG, AND D. T. SMITH; VISITING PROFESSOR
DAWSON; ASSOCIATE PROFESSORS CONANT, F. BERNHEIM, DANN, HETHERING-
TON, HOLLINSHEAD, MCCREA, MARTIN, NEURATH, AND TAYLOR;
ASSISTANT PROFESSORS M. L. C. BERNHEIM, EVERETT,
HANDLER, AND PEELE

The facilities of the departments listed below are available to qualified students for independent or supervised research and investigations whether working for advanced degrees or otherwise.

Graduate students desiring to pursue a major or a minor in any of the departments listed below or to be admitted to any of the courses listed below should consult or write to the Head of the Department concerned: Anatomy, Dr. J. E. Markee; Bacteriology, Dr. D. T. Smith; Biochemistry, Dr. W. A. Perlzweig; Physiology and Pharmacology, Dr. G. S. Eadie; Nutrition, Dr. W. J. Dann. Because of the accelerated program in the Medical School, graduate students are advised to write the Heads of the Departments for the exact dates of the different courses.

ANATOMY

M201. Gross Human Anatomy.—A course especially designed for graduate students, comprising a complete dissection of the cadaver. The laboratory work is supplemented by conferences which place emphasis on the biological aspects of the subject. Oct., 1945-Feb., 1946. Hours and credits (maximum 8 s.h.) by arrangement. Prerequisites: adequate training in comparative anatomy and embryology. DR. MARKEE AND STAFF

M202. Microscopic Anatomy.—Conferences and laboratory work on the morphological characteristics of the tissues of the animal body. The work is based upon a study of fresh and prepared material and is approached from the physiological viewpoint. Oct., 1945-Feb., 1946. Hours and credits (maximum 3 s.h.) by arrangement. Prerequisite: adequate training in histology or cytology. DR. MARKEE AND STAFF

M203. Anatomy of the Nervous System.—A study of the gross and microscopic structure of the human central nervous system, special attention being paid to the structural and functional relationships between the various nuclei and fiber tracts. Oct., 1945-Feb., 1946. Hours and credits (maximum 4 s.h.) by arrangement. Prerequisite: Anatomy M201. DR. MARKEE

BACTERIOLOGY AND IMMUNOLOGY

M221. Bacteriology and Immunology.—This course is devoted primarily to the study of the biological and immunological relationships of micro-organisms in disease. It is not a course in bacteriologic technique. An additional course in technical methods is provided for those who require it. Two hours lecture and 8 hours laboratory per week in fall quarter. Prerequisites: courses in general zoology, general botany, histology and comparative anatomy, general and organic chemistry. 4 s.h. DR. D. T. SMITH AND STAFF

M223. Advanced Bacteriology and Immunology.—This course is intended primarily for graduate students majoring in bacteriology, but it is also available as a minor to such other graduate students in related fields, to whom it is recommended by respective supervising committees and with the approval of the Department of Bacteriology. 8 s.h. DR. D. T. SMITH AND STAFF

BIOCHEMISTRY

M241. General Biochemistry.—Three lectures, four laboratory periods of three hours each, and one two-hour seminar weekly for eighteen weeks. Prerequisites: general chemistry, organic chemistry, elementary physical and analytical chemistry, and at least one year of college biology. Feb.-June, 1945. 8 s.h. DR. PERLZWEIG AND STAFF

M242. Biochemical Preparations.—Eight hours laboratory with conferences when necessary. This course involves detailed study of the chemistry of enzymes, proteins, fats, carbohydrates and derivatives. Prerequisite: Biochemistry M241. Hours by arrangement. 2 s.h. DR. TAYLOR AND STAFF

M243-244. Physical Chemical and Colloid Chemical Principles of Biochemistry.—Special emphasis is given to the structure and physical chemistry of proteins, enzymes, viruses, etc. Two hours per week throughout the year. DR. NEURATH

M341. Pathological Chemistry.—Seminar course devoted to a detailed study of the chemical and physical chemical aspects of normal and abnormal metabolism. Two hours per week by arrangement. Prerequisites: Biochemistry M241 and Physiology M261-2.

Laboratory work consisting chiefly of blood and urine analysis in relation to problems discussed will be provided for students desiring it.

DRS. PERLZWEIG, TAYLOR, AND M. L. C. BERNHEIM

M343. Immunochemistry.—A seminar dealing with the fundamentals of immunological reactions in general and with the chemistry of antigen-antibody reactions in particular. 2 s.h. DRS. MARTIN AND NEURATH

PHYSIOLOGY, PHARMACOLOGY, AND NUTRITION

M261-2. Human Physiology and Pharmacology.—Six lectures and twenty laboratory hours per week. Prerequisites: Anatomy M201 and Biochemistry M241 (or equivalents) and at least one year of college physics. Feb.-June, 1945. Credits depending on work taken. (Maximum 8 s.h.)

The lectures in pharmacology, two hours per week, are included in this course and may be taken separately or omitted, depending upon the needs of the student. DR. EADIE AND STAFF

M263. Physiology of Digestion, Metabolism, and Nutrition.—Two hours lectures and conferences and the equivalent of one laboratory period of three hours per week. Prerequisite: Biochemistry M241. Feb.-June, 1945. 2 s.h.

This course constitutes a part of Physiology M261-2, but may be taken separately. DRS. DANN, EADIE, AND F. BERNHEIM

M363-4. Advanced Seminar in Nutrition.—Prerequisites: Biochemistry M241 and Physiology M261 or equivalents. Two hours weekly. 4 s.h. DR. DANN

ADVANCED DEGREES CONFERRED MAY 27, 1944

MASTER OF ARTS

Ahlstrom, Carl Ferdinand, III	Kittila, Richard Sulo
Bloom, Melvin Sigmund	Lewis, Ralph LaVerne
Candler, Frances Godfrey	MacIntosh, Fred Henry
Dupree, John Louis	Morris, Clara Juanita
Field, Frank Henry	Pirkle, Eva Ann
Fries, Jean Nevin	Pohl, Marian Evelyn
Hood, Mallie Roy	Pressly, Eleanor Crockett
Hunter, Charlotte Elizabeth	Randall, Elma Louise
Kinsman, Margaret Eleanor	Wood, Virginia Loraine

MASTER OF EDUCATION

Caldabaugh, Harry Rahr	Kellar, Maynard Herbert
Campbell, Walter Hoodenpyl	Wiggins, Samuel Paul

DOCTOR OF PHILOSOPHY

BAUMGARTEN, ERWIN, B.S., California Institute of Technology; A.M., University of California at Los Angeles.

Dissertation: *Certain Aspects of the Claisen, Aldol and Related Reactions.*

EDDY, GEORGE NORMAN, Th.B., Gordon College; A.M., University of New Hampshire; M.Ed., Springfield College.

Dissertation: *The Human Face: A Study in Culture and Social Interaction.*

ERICKSON, JOHN OTTO, B.S., University of Minnesota.

Dissertation: *Physico-Chemical and Immunological Studies on Protein Denaturation.*

FREISER, HENRY, B.S., College of the City of New York; A.M., Duke University.

Dissertation: *Electric Moments and Dielectric Polarization Studies of Certain Halogenated Aromatic Organic Compounds.*

HERNDON, NETTIE SOUTHWORTH, A.B., A.M., West Virginia University.

Dissertation: *James Iredell.*

JOHNSON, KEITH WHITAKER, A.B., University of Kansas; A.M., Duke University.

Dissertation: *Racial Division of Labor and the American Negro. A Statistical Study of the Occupational Distribution of the Four Major Race and Nativity Groups in the United States, with Particular Discussion of the Negro.*

MAGALHAES, HULDA, B.S., New Jersey College for Women; A.M., Mount Holyoke College.

Dissertation: *An Ecological Study of Snails of the Genus *Busycon* at Beaufort, North Carolina.*

MARTIN, WILLARD EDGAR, JR., A.B., Boston University; A.M., Harvard University.

Dissertation: *The Life and Works of Theodore Winthrop.*

PATRICK, CLARENCE HODGES, A.B., Wake Forest College; B.D., Andover Newton Theological School.

Dissertation: *The Use of Alcoholic Beverages: A Cultural Study.*

RAMSAY, CHARLES MCKAY, A.B., Berea College; B.D., Union Theological Seminary.

Dissertation: *The Concepts of God and of Salvation in the Writings of Irenaeus of Lugdunum.*

SINGER, ARMAND EDWARDS, A.B., Amherst College; A.M., Duke University.

Dissertation: *The Effect of the War of 1870 on the Development of Taine's Thought.*

SOODAK, HARRY, B.S., College of the City of New York; A.M., Columbia University.

Dissertation: *Effects of Heat Transfer between Gases and Solids.*

TARRANT, PAUL, B.S., Howard College; M.S., Purdue University.

Dissertation: *The Production of Fluorine and the Preparation of Organic Fluoro-Compounds by Direct and Indirect Methods.*

TOWNSEND, FRED A LIVERANT, A.B., A.M., Duke University.

Dissertation: *Jonson and His Critics: A Study in the Classical Fallacy.*

VAN VOORHIS, ROBERT HENRY, A.B., A.M., Duke University.

Dissertation: *Borrowing Our Way to Socialism: The Economic Thought of Pierre-Joseph Proudhon.*

WALLACE, LILLIAN PARKER, A.B., University of Denver; M.S., North Carolina State College.

Dissertation: *The Papacy and European Diplomacy, 1869-1878.*

ADVANCED DEGREES AWARDED IN SEPTEMBER, 1943

MASTER OF ARTS

Anderson, Lucian Dumas	Hartman, Inez Rebecca
Best, Albert Hartwell, Jr.	Huntley, Arthur Gene
Bevan, William, Jr.	Johnson, Emma Bain
Black, Caroline Banks	Lorman, Justine Helen
Blanton, Mayme Betty Newbern	Luborsky, Lester Bernard
Coble, Joseph Fillmore	Miller, William Durell
Cole, Margaret Evelyn	Paskins, Cloyd Woodrow
Cook, Viola	Phillips, Preson Peek, Jr.
Cooper, Frances Harlee	Propst, Mary Elizabeth
Copp, Earl Picard	Salter, Harriet May
Duke, Mary Catherine	Stull, Martha Louise
Edmeston, Rhoda Christena	Trivette, Ruth Jane Whitman
Garner, William Nelson	Willits, Esther May
Gilbert, Alfred Rachels	Yowell, Robert Burges
Hamrick, Garnet	

MASTER OF EDUCATION

Ahalt, Paul Edwin	Karr, Mary Frances
Ballagh, Robert Hamilton	Law, James Vincent
Chapman, Mildred Frances	McClure, Paul Fleming
Evans, Eunice Ledbetter	McCown, Marietta M.
Flanagan, William Leroy	Perry, Eustace Rivers
Harbison, James Wesley	Pittman, DeWitt Kennieth
Hix, David Neal	Spangler, Dorn Odell
Holston, Norene	Taylor, Melvine Holmes
Ingram, Mary Middleton	Webb, Lester Dell
Kagy, Joseph Archer	

GRADUATE STUDENTS

ACADEMIC YEAR, 1944-45

<i>Name</i>	<i>Home Address</i>
Baker, Maury Davison, Jr. A.B. (University of Miami); A.M. (Duke University), History.	Richmond, Va.
*Barbee, John Martin A.B. (Bob Jones College), Philosophy, Psychology.	Charlotte, N. C.
†Barbour, Ian Graeme A.B. (Swarthmore College), Physics.	Cincinnati, Ohio
†Barstow, Betty Dick A.B. (University of Michigan), Mathematics, Philosophy.	Midland, Mich.
Beeler, James Rush A.B. (University of North Carolina), French.	Burnsville, N. C.
Bennett, Jean Arline A.B. (Duke University), French, Spanish.	Brevard, N. C.
Bentley, Nancy Joyce A.B. (Duke University), Botany.	Durham, N. C.
Berry, Lucia Kendall B.S. (Tufts College), Education.	Durham, N. C.
Bishop, Benjamin Harold B.S. (Wofford College), Chemistry, Physics.	Spartanburg, S. C.
Bitner, Harold Miller B.S. in Ed. (Shippensburg State Teachers College), Education, Psychology.	Williamson, Pa.
Blackstock, Walter, Jr. A.B. (University of Georgia); A.M. (Vanderbilt University), English.	Atlanta, Ga.
Blair, Norman John Ph.B. (Brown University); A.M. (New York University), Psychology, Education.	Lynbrook, N. Y.
†Bloom, Melvin Sigmund B.S. (Furman University); A.M. (Duke University), Chemistry.	Greenville, S. C.
Draverman, Howard A.B. (Brooklyn College), History, English.	Brooklyn, N. Y.
Brewer, Earl David Clarence B.Ph., B.D. (Emory University), Sociology, Psychology.	Bahama, N. C.
Brice, Ashbel Green A.B., A.M. (Columbia University), English.	York, S. C.
Brownlee, William Hugh A.B. (Sterling College); Th.B. (Pittsburgh-Xenia Theological Seminary), Religion.	Sylvia, Kan.
Bryan, Thomas Conn A.B. (Duke University); A.M. (University of North Carolina), History.	Skyland, N. C.
Buchanan, Edith A.B. (Meredith College), English, Philosophy.	Cullowhee, N. C.
Calvert, Henry Woodrow B.S. (University of South Carolina), Sociology, Economics, Political Science.	Atlanta, Ga.
Capua, Julius Paul, II A.B. (Augustana College), History.	Muskegon, Mich.
Carroll, Howard A.B. (University of Richmond); B.D. (Duke University), Religion.	Easton, Md.
Chesnut, Doris Ray B.S. (Farmville State Teachers College), Political Science.	Durham, N. C.

* Special student first semester.

† Enrolled under special science calendar July 1, 1944-June 30, 1945.

<i>Name</i>	<i>Home Address</i>
Clark, Ellen Mercer A.B. (University of Richmond), Latin, Spanish.	Atlee, Va.
Clavering, Rose A.B. (Brooklyn College), English.	Brooklyn, N. Y.
*Cohen, Eckford Larry B.S. (Mississippi State College), Mathematics, Philosophy.	Starkville, Miss.
Collins, Herbert A.B. (Brooklyn College), History.	Brooklyn, N. Y.
Cooke, Barbara Rice A.B. (Duke University), English.	Washington, D. C.
Coolidge, Cary A.B. (Blue Mountain College); A.M. (George Peabody College for Teachers), French, Spanish.	Nashville, Tenn.
Culbertson, Jack Arthur A.B. (Emory and Henry College), German, Philosophy.	Nickelsville, Va.
Cummings, Anne Burt Stainback A.B. (Hollins College), Psychology, Education.	Pittsburgh, Pa.
*Deal, Carl Hosea, Jr. B.S. (Duke University), Chemistry.	Salisbury, N. C.
Deeds, John Milton B.S. (West Virginia Wesleyan College), Education.	Cary, N. C.
Denny, Mary Rebecca A.B. (Salem College); A.M. (Duke University), English.	Charlotte, N. C.
Dillingham, William Pyrlle B.A.E. (University of Florida); M.S. (University of Tennessee), Economics.	Durham, N. C.
DuBose, Samuel Wilds A.B. (Davidson College); A.M. (Duke University); B.D. (Union Theological Seminary), Religion.	Hillsboro, N. C.
Evans, Alona Elizabeth A.B. (Duke University), Political Science.	Durham, N. C.
Evans, Robert Weldon A.B. (Hendrix College); B.D. (Duke University), Religion.	Batesville, Ark.
*Field, Frank Henry B.S., A.M. (Duke University), Chemistry.	Cliffside Park, N. J.
Flannery, Peggy Anne Strowd A.B. (Duke University), English.	Durham, N. C.
Flansburgh, Clara Julina A.B. (Maryland College); A.M. (Middlebury College), French.	Staunton, Va.
Fouch, Ann A.B. (Duke University), Zoology, English.	Orrville, Ohio
Frase, Earline (Patty) Marie A.B. (Ohio Northern University); A.M. (University of Denver), Psychology, Philosophy.	Peninsula, Ohio
Frey, Ellen Frances A.B. (Barnard College); A.M. (Duke University), English.	Durham, N. C.
†Friese, Forest Fred (Graduated from Concordia Theological Seminary), Philosophy, History.	Durham, N. C.
Gesling, Martha Myra A.B. (Ohio Northern University); A.M. (Ohio State University), Education, Psychology.	Lancaster, Ohio

* Enrolled under special science calendar July 1, 1944-June 30, 1945.

† Special student.

<i>Name</i>	<i>Home Address</i>
Giuliano, Jerry James B.S. (Duke University), Chemistry, Physics.	Irvington, N. J.
Goodwin, Noma Lee A.B. (Duke University), English.	Durham, N. C.
Green, Nancy Isobel Maxwell A.B., A.M. (Duke University), History.	Durham, N. C.
*Heim, Peggy A.B. (Duke University), Economics.	Sunbury, Pa.
Heisey, Wilbur Lloyd A.B. (Manchester College), History.	Flint, Mich.
Hertz, Hilda A.B. (Skidmore College); A.M. (Duke University), Sociology, Economics.	Forest Hills, L. I., N. Y.
Hiil, Henry Clyde, Jr. B.S. in Ed., M.S. (University of Illinois), Zoology, Physiology.	Chicago, Ill.
Holder, Ray A.B., A.M. (University of Mississippi); B.D. (Duke University), Religion.	Henderson, N. C.
Holman, Harriet R. A.B. (Winthrop College); A.M. (University of Michigan), English.	Anderson, S. C.
Holton, Jean Morris A.B. (Millsaps College), Zoology, English.	Yazoo City, Miss.
Horn, Herman Lionel A.B. (Bridgewater College); A.M. (Duke University), Political Science, History.	Mt. Solon, Va.
Hornaday, John Albert A.B. (Duke University), Psychology, Education.	Henderson, N. C.
Huff, Jesse William B.S. (University of Pittsburgh), Biochemistry.	Jeannette, Pa.
Hull, Alma Louise A.B. (Duke University), Psychology.	Harrisburg, Pa.
Johnson, Natalie Kristina A.B. (Duke University), Spanish, French.	Miami, Fla.
Kesler, Daniel Karraker A.B. (Wake Forest College), Philosophy, Psychology.	Easton, Md.
†Kingsbury, Ralph Norman B.S. (Northeastern University), Chemistry, Physics.	Milton, Mass.
Kingston, Marion Josephine A.B. (Mount Holyoke College), English.	Melrose, Mass.
Knox, Norman Davis A.B. (Swarthmore College), English.	Durham, N. C.
Kreps, Clara Juanita Morris A.B. (Berea College); A.M. (Duke University), Economics, Sociology.	Norfolk, Va.
Kreps, Clifton Holland, Jr. B.A. (The College of William and Mary); A.M. (University of North Carolina), Economics.	Norfolk, Va.
Lair, Eugenie Dille A.B. (Randolph-Macon Woman's College), Botany.	Cynthiana, Ky.
Levine, Bertram A.B. (Duke University), Zoology, Psychology.	Paterson, N. J.
†Levine, Robert A.B., A.M. (Dartmouth College), Chemistry.	East Boston, Mass.
Levitas, Nora A.B. (Brooklyn College), Biochemistry.	Brooklyn, N. Y.

* Candidate for the A.B. degree, May, 1945.

† Enrolled under special science calendar July 1, 1944-June 30, 1945.

<i>Name</i>	<i>Home Address</i>
Lewis, Frank Bell A.B., A.M. (Washington & Lee University); B.D., Th.M. (Union Theological Seminary), Religion.	Maxwelton, W. Va.
Little, Sue Allen Warren A.B. (East Carolina Teachers College), Psychology.	Durham, N. C.
Luborsky, Lester Bernard A.B. (Temple University); A.M. (Duke University), Psychology.	Philadelphia, Pa.
McClain, Howard Gordon A.B. (Vanderbilt University); B.D. (Southern Baptist Theological Seminary), Religion.	Sherman, Texas
McGriff, Mary Emily A.B. (Duke University), History, English.	Birmingham, Ala.
Mackie, Mary Mildred B.S. (Appalachian State Teachers College), English.	Granite Falls, N. C.
*Manes, Milton B.S. (College of the City of New York), Chemistry.	Brooklyn, N. Y.
*Marsh, Spinks Hamilton B.S. (Duke University), Chemistry, Physics.	Monroe, N. C.
Matte, Lorenzo B.A. (Laval University); M.F. (Duke University), Forestry, Botany, Philosophy, Mathematics.	Quebec City, Canada
Merriken, Ellenor Marie A.B. (Washington College), English.	Federalsburg, Md.
Moore, Benjamin Franklin A.B. (University of Georgia); B.D. (Columbia Theological Seminary), Religion.	Oxford, N. C.
*Moore, Edward James, Jr. A.B. (University of Buffalo), Physics.	Getzville, N. Y.
*Mooring, Francis Paul A.B. (Duke University), Physics, Mathematics.	Rocky Mount, N. C.
Moser, Harold Eugene B.S. (Johns Hopkins University); A.M. (Teachers College, Columbia University), Education, Psychology.	Frederick, Md.
Muldrow, Mary Frances A.B. (Georgia State College for Women), French, Spanish.	Milledgeville, Ga.
Nau, Walter Theodore A.B. (Guilford College); B.D. (Concordia Theological Seminary); A.M. (Duke University), French, Spanish.	Lexington, N. C.
Osment, Cecile Daniel A.B. (Bessie Tift College); A.M. (George Peabody College for Teachers), History.	Durham, N. C.
Pannill, Harry Burnell A.B. (Randolph-Macon College); B.D. (Duke University), Religion.	Staunton, Va.
*Parker, Mary Ellen A.B. (Randolph-Macon Woman's College), Chemistry.	Roanoke, Va.
Parks, Elizabeth Miriam A.B. (Grinnell College), English.	Denver, Colo.
Patton, Dorothy Jean A.B. (Geneva College), English.	Beaver Falls, Pa.
Peters, Frank Anthony A.B. (University of Alabama), History, Political Science.	Tuscaloosa, Ala.
Pope, Hilda Persons A.B. (Georgia State College for Women), Bacteriology, Biochemistry.	Griffin, Ga.
Purcell, Charles William, Jr. A.B. (Marshall College), History, Political Science.	Huntington, W. Va.

* Enrolled under special science calendar July 1, 1944-June 30, 1945.

<i>Name</i>	<i>Home Address</i>
*Rake, Margaret Evelyn B.S. (Duke University), Chemistry.	Philadelphia, Pa.
Raymond, Ruth A.B. (University of Chattanooga), Bacteriology.	Durham, N. C.
Rhodes, Daniel Durham A.B. (Davidson College); B.D. (Louisville Presbyterian Theological Seminary), Religion.	Rocky Point, N. C.
Richards, Claud Henry, Jr. A.B. (Texas Christian University); A.M. (Duke University), Political Science.	Fort Worth, Texas
*Ringler, Betty Irene B.S. (Florida State College for Women), Chemistry.	St. Petersburg, Fla.
Rogers, Dorothy A.B., A.M. (University of Georgia), Education, Sociology.	Ashburn, Ga.
Rogolino, Mary Theresa A.B. (Florida State College for Women), Spanish, French.	St. Augustine, Fla.
*Rosenbaum, Haskell Menachim B.S. (College of the City of New York), Chemistry, Physics.	Sunnyside, N. Y.
Rudisill, Dorus Paul A.B. (Lenoir-Rhyne College); A.M. (University of South Carolina); B.D. (Lutheran Theological Southern Seminary); S.T.M. (Hartford Theological Seminary), Religion.	Chapel Hill, N. C.
Salomon, Ann Douglass A.B. (Swarthmore College), Psychology, Education.	New London, Conn.
Saltzman, Irving Jackson B.S. (Massachusetts State College), Psychology, Education.	Dorchester, Mass.
Schafer, Thomas Anton A.B. (Maryville College); B.D. (Louisville Presbyterian Theological Seminary), Religion, History.	E. Liverpool, Ohio
*Scheraga, Harold Abraham B.S. (College of the City of New York); A.M. (Duke University), Chemistry.	Durham, N. C.
Scheraga, Miriam Kurnow A.B. (Brooklyn College), Sociology.	Durham, N. C.
Schulze, Frances Elaine A.B. (Marshall College), Psychology, Philosophy.	Pelham Manor, N. Y.
*Sell, Clyde Jacob B.S. (Juniata College), Physics.	Martinsburg, Pa.
Shirey, William Arthur A.B. (DePauw University); A.M. (Indiana University), Sociology.	Durham, N. C.
*Shivers, Joseph Clois, Jr. B.S., A.M. (Duke University), Chemistry.	Riverton, N. J.
Smith, Mary Betty A.B. (Drury College), History, Sociology.	Springfield, Mo.
Starr, Homer Pilgrim A.B. (The University of the South); B.D. (Virginia Theological Seminary), Religion.	Burlington, N. C.
Tilden, Mary Weatherly B.S. (Duke University), Biochemistry.	Jamestown, N. C.
Tomlinson, Muriel Dorothy A.B. (Bates College), French, Spanish.	Manchester, Conn.
†Tompkins, James Kenneth A.B. (Duke University), Chemistry.	Johnson City, N. Y.

* Enrolled under special science calendar July 1, 1944-June 30, 1945.

† Special student; enrolled under special science calendar July 1, 1944-June 30, 1945.

<i>Name</i>	<i>Home Address</i>
Truscott, Ethel Irene A.B. (Coker College), Religion.	Lomas de Zamora, Argentina
Turner, Anne Clara A.B. (University of Georgia); A.M. (Duke University), Latin, Greek.	Albany, Ga.
*Tuttle, James Gray A.B. (Duke University), Chemistry.	Raleigh, N. C.
*Vingiello, Frank Anthony B.S. in Chem. (Polytechnic Institute of Brooklyn), Chemistry.	Brooklyn, N. Y.
Volkin, Elliot B.S. (Pennsylvania State College), Biochemistry, Chemistry.	Mt. Pleasant, Pa.
Wakefield, Troy Marshall A.B. (West Virginia Wesleyan College); S.T.B., S.T.M. (Boston University), Latin, Religion.	Kingwood, W. Va.
*Walker, Howard George, Jr. B.S. (Duke University), Chemistry.	Westfield, N. J.
Wall, Mildred Eugenia A.B. (Birmingham-Southern College), History.	Birmingham, Ala.
Walter, Margaret Van Horne A.B. (University of Illinois), English.	Durham, N. C.
*Warren, Margaret Elizabeth A.B. (Duke University), Chemistry, Physics.	Shaker Heights, Ohio
*Weiss, Martin Joseph A.B. (New York University), Chemistry.	New York, N. Y.
*Weith, Archie James, Jr. A.B., A.M. (Duke University), Chemistry.	Caldwell, N. J.
Wellborn, Mary Moss A.B. (Mississippi State College for Women), English.	Starkville, Miss.
Wellons, Janet Elaine A.B. (Cornell College, Iowa), Sociology, Psychology.	Pembroke, N. C.
*Wicker, Gloria Louise B.S. (Lander College), Chemistry.	Greenwood, S. C.
Wiggins, Elizabeth Lewis A.B. (Winthrop College); A.M. (Duke University), English.	Holly Hill, S. C.
Wiggins, Pauline Evelyn A.B. (University of Chattanooga), English.	Birchwood, Tenn.
Wiles, Charles Preston A.B. (Washington College), Sociology.	Brunswick, Md.
Wilson, John Cullum B.S. (Berry College), Education.	Durham, N. C.
Wilson, Ulrey Kaulbach A.B. (University of Chattanooga), Education, Psychology.	Durham, N. C.
*Wissow, Lennard Jay B.S. (Pennsylvania State College); A.M. (Duke University), Chemistry.	Philadelphia, Pa.
Wood, Virginia Loraine A.B. (Roanoke College); A.M. (Duke University), Political Science, Economics, History.	Roanoke, Va.
Woodbridge, Charles Jahleel A.B., A.M. (Princeton University); Th.B. (Princeton Theological Seminary), Religion.	Salisbury, N. C.
*Yost, Robert Stanley B.S. (Pennsylvania State College), Chemistry.	Pottsville, Pa.
Young, Franklin Woodrow A.B. (Dartmouth College); B.D. (Crozer Theological Seminary), Religion.	Columbus, Ohio

* Enrolled under special science calendar July 1, 1944-June 30, 1945.

<i>Name</i>	<i>Home Address</i>
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SUMMER OF 1944; FIRST TERM

Alam, Sadie Joan B.S. in Educ. (Slippery Rock State Teachers College), Education.	Aliquippa, Pa.
Andre, Helen Valera B.S. in Educ. (Slippery Rock State Teachers College), Education.	Tarentum, Pa.
Askew, Alice Washburn A.B. (Queens-Chicora College); A.M. (Duke University), Education.	Bostic, N. C.
Autry, Randall Franklin A.B. (University of North Carolina), Education.	Godwin, N. C.
Barnes, George Hector B.Sc.F. (University of Washington); M.S. (University of California), Forestry.	Logan, Utah
Eates, Walter Murrie A.B. (Randolph-Macon College), Education.	Richmond, Va.
Bayless, Flora Johnson A.B. (West Virginia Institute of Technology), Education.	Dunbar, W. Va.
Beale, Alvin Francis A.B. (College of William and Mary), Education	Richmond, Va.
Bennett, Jean Arline A.B. (Duke University), Spanish.	Brevard, N. C.
Bentley, Nancy Joyce A.B. (Duke University), Botany.	Durham, N. C.
Flakeslee, Edward Ray, Jr. B.S. (East Stroudsburg State Teachers College), Education.	Wilmington, N. C.
Blakeslee, Verna Treat B.S. (East Stroudsburg State Teachers College), Education.	Wilmington, N. C.
Blank, Olive Greenawalt A.B. (Marshall College), English.	Huntington, W. Va.
Bomberger, Helen Mae B.S. (West Chester State Teachers College), Education.	Richland, Pa.
Bonomi, Florence Margaret B.S. (Indiana State Teachers College, Pa.), Spanish.	Aliquippa, Pa.
Bowman, Audria Mae A.B. (Marshall College), Education.	McConnell, W. Va.
Bowman, Helen Jordan B.S. (State Teachers College, California, Pa.), Education.	Bridgeville, Pa.
Brantley, Mabel Ruth B.S. in Educ. (Georgia State College for Women), English.	Warner Robins, Ga.
Breece, Ruth Isobel Schoenberger A.B. (Duke University), English.	Parkland, Pa.
Brim, Annie Evelyn A.B. (Georgia State Woman's College at Valdosta), English.	Sasser, Ga.
Brokaw, Ruth Wilmina A.B. (Marietta College), Education.	East Liverpool, Ohio
Brosius, Magdalene Hershey B.S. (West Chester State Teachers College), Education.	Atglen, Pa.
Browning, Laurence Lonville Eptan B.S. (Illinois Institute of Technology), Education.	Logan, W. Va.
Brownlee, William Hugh A.B. (Sterling College); Th.B. (Pittsburgh-Xenia Theological Seminary), Religion.	Sylvia, Kan.

<i>Name</i>	<i>Home Address</i>
Bryson, Pauline Pressley B.S. (Western Carolina Teachers College), Spanish.	Speedwell, N. C.
Bulwinkle, Muriel Charlton A.B. (Duke University), English.	Gastonia, N. C.
Burts, Robert Milton, Jr. A.B. (Berry College), History.	Honea Path, S. C.
Cardwell, Annie Irene B.S. (State Teachers College, Radford, Va.), Education.	Lynchburg, Va.
Carpenter, Frances Myrtle B.S. (Georgia Teachers College, Collegeboro, Ga.), Education.	Columbus, Ga.
Charie, Phyllis Leona A.B. (University of Pittsburgh), Spanish.	Pittsburgh, Pa.
Chatfield, Margaret A.B. (Duke University), Education.	High Point, N. C.
Chew, Jeanne Maurer A.B. (Pennsylvania State College), Spanish.	Pittsburgh, Pa.
Clark, Mary Newlon Moomau A.B. in Elem. Ed. (Davis and Elkins College), Education.	Petersburg, W. Va.
Cockerill, Martha Overton B.S. (Madison College), Education.	Purcellville, Va.
Coker, Madge Phillips A.B. in Ed. (University of Florida), Education.	Sebring, Fla.
Coleman, Virginia Lee B.S. in Ed. (Farmville State Teachers College), Education.	Warrenton, Va.
Combs, James Howard B.S. (Appalachian State Teachers College), Education, Sociology.	Woodlawn, Va.
Cooksey, Stella Marie B.S. (Morris Harvey College), Education, Religion.	Charleston, W. Va.
Costan, Helen Arthur B.S. in Ed. (Farmville State Teachers College), Education.	Lynchburg, Va.
Craig, Miriam B.S. in Ed. (Georgia State College for Women, Milledgeville), Education.	Columbus, Ga.
Creath, William Fontaine B.S. (University of Richmond), Education.	South Boston, Va.
Cummings, Anne Burt Stainback A.B. (Hollins College), Psychology, Education.	Pittsburgh, Pa.
Curry, Lois Mae A.B. (Westminster College), Education.	S. Charleston, W. Va.
Dail, Hilda Lee A.B. (Piedmont College), English.	Danville, Va.
Dale, Dorothy Jeanne A.B. (Murray State Teachers College), English.	Murray, Ky.
Day, Margaret Kathleen B.S. (Appalachian State Teachers College), Education.	Statesville, N. C.
Dunn, Lucile B.S. (Farmville State Teachers College), Education.	Arlington, Va.
Elliott, Edith Minerva A.B. (Concord College), Education.	Canebrake, W. Va.
Facinoli, Adele A.B. (New River State College), Education.	Glasgow, W. Va.
Fant, Alethea Blackmore B.S. (Mary Washington College), Education.	Warsaw, N. C.

<i>Name</i>	<i>Home Address</i>
Flaherty, Anne Grace B.S. in Ed. (Mansfield State Teachers College), Education.	Pittston, Pa.
Fletcher, Grace Elizabeth A.B. (Duke University), Education.	Durham, N. C.
Foster, Sarah Lettice A.B. (Winthrop College), A.M. (Columbia University), Spanish.	Clifton, S. C.
Frazee, Lora Miller B.S. (Georgia State College for Women, Milledgeville), Education, Sociology.	Thomaston, Ga.
Garland, James Louis B.S. in Ed. (Union College), Education.	Lexington, Ky.
Garrison, Evelyn Crutchfield A.B. (Meredith College), Education, English.	East Bend, N. C.
George, Austin Holly B.S. in Ed. (Ohio University), Education.	S. Parkersburg, W. Va.
George, Ida Maria A.B. (East Carolina Teachers College), English, Spanish.	Comfort, N. C.
Gibson, Samuel Koonce B.S. (Gettysburg College), Education.	DuBois, Pa.
Gibson, Walter Van Buren B.S. in Ed. (State Teachers College, Troy, Ala.), Education.	East Tallassee, Ala.
Grose, Georgianna Mary A.B. (Marshall College), Education.	Huntington, W. Va.
Hamlin, Griffith Askew A.B. (Atlantic Christian College); M.R.E. (College of the Bible, Lexington, Ky.), Religion.	Richlands, N. C.
Hammock, Ivy Leona Coil B.A.E. (University of Florida), Education.	Largo, Fla.
Hanks, Thomas Edgar B.S. (Radford State Teachers College), Education, Sociology.	Galax, Va.
Hartman, Emma Louise A.B. (Florida State College for Women), Education.	Pensacola, Fla.
Heagy, Dorothy May B.S. in Ed. (Millersville State Teachers College), Education.	York, Pa.
Hendler, Cornelia Clara B.S. (Buffalo State Teachers College), Education.	Buffalo, N. Y.
Hepler, Hannah Elizabeth B.S. in Ed. (Slippery Rock State Teachers College), Economics, English.	Natrona, Pa.
Hess, Catharine Mary B.S. in Elem. Ed. (West Chester State Teachers College), Education.	Norristown, Pa.
Hiers, Marion Manning B.L., A.B. (Flora Macdonald College), Religion.	Orangeburg, S. C.
Hill, Ione Smith LL.B. (Converse College), Education, Sociology.	Miami Beach, Fla.
Huff, Jesse William B.S. (University of Pittsburgh), Biochemistry.	Jeannette, Pa.
Hughes, Dorothy A.B. (Randolph-Macon Woman's College); A.M. (Columbia University), Economics.	Evington, Va.
Humphrey, Elizabeth Marie A.B. (Earlham College), Psychology.	Indianapolis, Ind.
Johnson, Rosemary Veronica B.S. in Ed. (Wilson Teachers College), Education.	Chevy Chase, Md.
Joyner, Alma Luna B.S. (Appalachian State Teachers College), Education.	Zebulon, N. C.

<i>Name</i>	<i>Home Address</i>
Kelly, Kathleen Eliza A.B. (Ohio University), Education, English.	Warren, Ohio
Kendig, Anna Mae B.S. in Ed. (Millersville State Teachers College), Education.	Conestoga, Pa.
Kern, Mary Katherine A.B. (Goucher College), English.	Winchester, Va.
Kincer, Jamie Graham A.B. (Emory and Henry College), History.	Wytheville, Va.
Kracke, Buford Mae B.S. (Florence State Teachers College, Ala), Education.	Hartselle, Ala.
Krathwohl, Betty Augenstine B.S. (Alfred University), Zoology.	Silver Creek, N. Y.
Kreamer, Mary Ida B.S. in Elem. Ed. (West Chester State Teachers College), Education.	Annaville, Pa.
Leete, Mortimer Uriel A.B., A.M. (Marshall College), Education.	Meadow Bridge, W. Va.
Leffler, Alice Frederick B.S. in Home Ec. (Hood College), Education.	Elkton, Md.
Levine, Bertram A.B. (Duke University), Zoology.	Paterson, N. J.
Lewis, Nancy Eloise A.B. (Denison University), English.	Canton, Ohio
Lisle, Edith Elizabeth A.B. (Duke University), Education.	Atlanta, Ga.
Loveless, Ruth A.B. (Florida State College for Women), English.	Mt. Dora, Fla.
Luborsky, Lester Bernard A.B. (Temple University); A.M. (Duke University), Psychology.	Philadelphia, Pa.
McAndrew, Florence Helton A.B. (Mary Baldwin College); A.M. (Northwestern University), Sociology.	Chicago, Ill.
McCurdy, John Albert B.S. in Ed. (Rutgers University), Education.	Matawan, N. J.
McCutchan, John Wilson A.B. (Davidson College); A.M. (University of Virginia), English.	Charlotte, N. C.
McGogney, Anna I. B.S. (University of Pittsburgh), Education.	Clairton, Pa.
McLennan, Marietta A.B. (Woman's College of the University of North Carolina), Education.	Greensboro, N. C.
MacNeill, Doris Elaine B.S. (New Jersey State Teachers College at Glassboro), Education.	Pennsgrove, N. J.
McNeill, Ellis Meade A.B. (Concord State Teachers College); M.S. (West Virginia University), Botany.	Athens, W. Va.
Mackay, Pauline Peeler A.B. (Winthrop College), Education, Sociology.	Orangeburg, S. C.
Mallernee, Evelyn Lucille B.S. in Ed. (Ohio State University), Education.	Sebring, Ohio
Marr, Claude Canie A.B. (Duke University), Education.	Asheville, N. C.
Martin, Howell Calhoun B.S. in Ed. (Georgia Teachers College, Collegeboro, Ga.), Education.	Patterson, Ga.
Mason, Clarence Herbert A.B. in Ed. (University of North Carolina), Education.	Timberlake, N. C.

<i>Name</i>	<i>Home Address</i>
Mathias, Ama Avis B.S. (Madison College), Education.	Mathias, W. Va.
Mathias, Audrie Lynn B.S. (Madison College), Education.	Mathias, W. Va.
Matthews, Hester Poole A.B. (Winthrop College), Spanish.	Bennettsville, S. C.
Meisenholder, Nina May B.S. in Ed. (Millersville State Teachers College), Education.	Lancaster, Pa.
Miller, Marguerite Guy A.B. (Florida State College for Women), History.	St. Petersburg, Fla.
Mitchell, Edith Myrl A.B. (Tusculum College), History.	Greeneville, Tenn.
Moore, Bruce Lipscomb A.B. (Coker College), English.	Columbia, S. C.
Moore, Nelle Elizabeth A.B. (Lambuth College), English, Education.	Raleigh, Tenn.
Morris, Paul Tidwell B.S. (Memphis State Teachers College), Education.	Chattanooga, Tenn.
Morrison, Kathleen McLean A.B. (Florida State College for Women), Education.	Pensacola, Fla.
Norberg, Carl Gustav A.B. (Marshall College), Education.	East Aurora, N. Y.
Oates, Julia Neagle A.B. (Woman's College of the University of North Carolina), English, Education.	Kannapolis, N. C.
Parker, Edna Earl A.B. (Florida State College for Women), Education.	West Palm Beach, Fla.
Patterson, Sue Lavinia B.S. (Florida Southern College), Education.	Daytona Beach, Fla.
Patton, Dorothy Jean A.B. (Geneva College), English.	Beaver Falls, Pa.
Payne, Hura Harrison A.B. (Berea College), Education.	Johnsons Mill, Va.
Peebles, Robert Bruce A.B., B.S. in Ed. (Kent State University), English.	Cuyahoga Falls, Ohio
Pettenati, Yolanda Bona B.S. in Ed. (Lock Haven Teachers College), Education.	Crosby, Pa.
Pitts, Mabel Davidson B.S. in Ed. (Georgia State College for Women), Education.	Jacksonville, Fla.
Poger, Irene Ruth A.B. (New York State College for Teachers), Education.	Oriskany, N. Y.
Poggy, Violette Elizabeth B.S. in Ed. (Millersville State Teachers College), Education.	Millersville, Pa.
Prillaman, Mary Jane B.E. (Teachers College of Connecticut, New Britain, Conn.), Education, Sociology.	Southern Pines, N. C.
Pritchard, Willie Stephenson A.B. (Woman's College of the University of North Carolina), History, English.	Seaboard, N. C.
Puckette, Cornelia Christine A.B. (College of William and Mary), Education, Sociology.	Gladys, Va.
Pyle, Katherine Asenath A.B. (Pennsylvania College for Women), English.	Burgettstown, Pa.
Reed, Bruce A.B. (Glenville State Teachers College), Education.	Charleston, W. Va.

<i>Name</i>	<i>Home Address</i>
Roberts, Dorothy Dean B.S. (Miami University), Education.	Hamilton, Ohio
Rosinski, Sophie Anne A.B. (Villa Maria College), Education.	Erie, Pa.
Salley, Claudia Louise A.B. (University of Tennessee), History.	Asheville, N. C.
Sample, Kathleen A.B. (John B. Stetson University), Botany, Zoology.	Jacksonville, Fla.
Scarboro, Louise Bernice A.B. (Georgia State College for Women, Milledgeville), English.	Stillmore, Ga.
Shank, Geraldine Cleo B.S. in Ed. (Shippensburg State Teachers College), Education.	Schuylkill Haven, Pa.
Shankle, Carl Edward B.S. (Clarion State Teachers College), Education.	Morgantown, N. C.
Sharp, Grace Moore A.B. (Davis and Elkins College), Education.	Huntersville, W. Va.
Shelhamer, Ferne Ruth B.S. (Kutztown State Teachers College), Education.	Richland, Pa.
Sutherland, Myra Azalene A.B. (East Carolina Teachers College), Education.	Wilmington, N. C.
Spears, Julius Hubert A.B. (Mercer University); Th.M. (Southern Baptist Theological Seminary), Religion.	Chatham, Va.
Spencer, Elizabeth A.B. (Belhaven College); A.M. (Vanderbilt University), English.	North Carrollton, Miss.
Stockard, Adrian Ebenezer B.S. (Southwestern University), Mathematics, Education.	Grenada, Miss.
Stone, Ann A.B. (Millsaps College), Spanish.	Jackson, Miss.
Stoner, Aaron Hess B.S. (Millersville State Teachers College), Education.	Silver Spring, Md.
Storch, Margaret Rees A.B. (Cedar Crest College), Sociology, Religion.	Allentown, Pa.
Stump, Elizabeth Bell A.B. (University of Akron), Education.	Akron, Ohio
Tanner, Agnes Mae Vicars B.S. (Radford State Teachers College), Education.	Rocky Ford, Colo.
Templeton, Grace Lynn A.B. (Winthrop College), Education.	Charleston, S. C.
Thomas, Cecil Kermit A.B. (Manhattan Bible College); A.M., B.D. (Phillips University), Religion.	Kimberlin Hgts., Tenn.
Thomas, Mary Louise B.S. (Indiana State Teachers College, Pa.), Education.	Aliquippa, Pa.
Trammell, Frances Mauldin B.S., M.S. (Alabama Polytechnic Institute), English.	Auburn, Ala.
Truscott, Ethel Irene A.B. (Coker College), English.	Lamos de Zamora, Argentina
Walker, Thelma Pauline B.S. (State Teachers College, Johnson City, Tenn.), History.	Johnson City, Tenn.
Wallschlaeger, Elinor B.S. in Ed. (Milwaukee State Teachers College), Education.	Milwaukee, Wis.
Walter, Margaret Van Horne A.B. (University of Illinois), English.	Durham, N. C.

<i>Name</i>	<i>Home Address</i>
Walters, Margaret Genevieve A.B. (Washington College), Education.	Galena, Md.
Watts, Amanda Josephine A.B. (University of Texas), English.	Bryan, Texas
Weir, Marie Janette B.S. in Ed. (West Chester State Teachers College), Education.	Ivyland, Pa.
Wiley, Virginia A.B. (Randolph-Macon Woman's College), English.	Lynchburg, Va.
Wilkinson, Connie Wallis A.B. in Ed. (Florida State College for Women), Education.	Tallahassee, Fla.
Wilson, Robert Seth B.S. (College of Wooster), Education.	Ashtabula, O.
Woodward, Leonard Groninger A.B. (Duke University), Education.	Garland, N. C.
Zeigler, Frances Chambers B.S. (Florida Southern College), Education, Sociology.	Tampa, Fla.

SUMMER OF 1944; SECOND TERM

Barnes, George Hector B.Sc.F. (University of Washington); M.S. (University of California), Forestry.	Logan, Utah
Bayless, Flora Johnson A.B. (West Virginia Institute of Technology), Education.	Dunbar, W. Va.
Beale, Alvin Francis A.B. (College of William and Mary), Education.	Richmond, Va.
Blakeslee, Edward Ray, Jr. B.S. (East Stroudsburg State Teachers College), Education.	Wilmington, N. C.
Bowman, Audria Mae A.B. (Marshall College), Education.	McConnell, W. Va.
Brantley, Mabel Ruth B.S. in Ed. (Georgia State College for Women), English.	Warner Robins, Ga.
Brim, Annie Evelyn A.B. (Georgia State Woman's College at Valdosta), English.	Sasser, Ga.
Brownlee, William Hugh A.B. (Sterling College); Th.B. (Pittsburgh-Xenia Theological Seminary), Religion, Education.	Sylvia, Kan.
Burts, Robert Milton, Jr. A.B. (Berry College), History.	Honea Path, S. C.
Cardwell, Annie Irene B.S. (State Teachers College, Radford, Va.), Education.	Lynchburg, Va.
Chatfield, Margaret A.B. (Duke University), Education.	High Point, N. C.
Cooksey, Stella Marie B.S. (Morris Harvey College), Education, Religion.	Charleston, W. Va.
Cummings, Anne Burt Stainback A.B. (Hollins College), Education.	Pittsburgh, Pa.
Curry, Lois Mae A.B. (Westminster College), Education.	S. Charleston, W. Va.
Cushing, Mary Louise B.Pd. (Jamaica Training School for Teachers), Education.	Jackson Heights, N. Y.
Dale, Dorothy Jeanne A.B. (Murray State Teachers College), English.	Murray, Ky.
Elliott, Edith Minerva A.B. (Concord College), Education.	Canebrake, W. Va.

<i>Name</i>	<i>Home Address</i>
Fant, Alethea Blackmore B.S. (Mary Washington College), Education.	Warsaw, N. C.
Flaherty, Anne Grace B.S. in Ed. (Mansfield State Teachers College), Education.	Pittston, Pa.
Frazee, Lora Miller B.S. (Georgia State College for Women, Milledgeville), Education.	Thomaston, Ga.
Garland, James Louis B.S. in Ed. (Union College), Education.	Lexington, Ky.
Garrison, Evelyn Crutchfield A.B. (Meredith College), Education.	East Bend, N. C.
Gibson, Samuel Koonce B.S. (Gettysburg College), Education.	DuBois, Pa.
Gibson, Walter Van Buren B.S. in Ed. (State Teachers College, Troy, Ala.), Education.	East Tallassee, Ala.
Grose, Georgianna Mary A.B. (Marshall College), Education.	Huntington, W. Va.
Hammock, Ivy Leona Coil B.A.E. (University of Florida), Education.	Largo, Fla.
Hanks, Thomas Edgar B.S. (Radford State Teachers College), Education.	Galax, Va.
Hepler, Hannah Elizabeth B.S. in Ed. (Slippery Rock State Teachers College), Economics, English.	Natrona, Pa.
Huff, Jesse William B.S. (University of Pittsburgh), Biochemistry.	Jeannette, Pa.
Jakes, Frank Henry, Jr. A.B. (Otterbein College); B.E. (University of Cincinnati), Education.	Newark, Ohio
Johnson, Rosemary Veronica B.S. in Ed. (Wilson Teachers College), Education.	Chevy Chase, Md.
Kelly, Kathleen Eliza A.B. (Ohio University), Education, English.	Warren, Ohio
Leffler, Alice Frederick B.S. in Home Ec. (Hood College), Education.	Elkton, Md.
Lewis, Nancy Eloise A.B. (Denison University), English.	Canton, Ohio
Lisle, Edith Elizabeth A.B. (Duke University), Education.	Atlanta, Ga.
Loveless, Ruth A.B. (Florida State College for Women), English.	Mt. Dora, Fla.
Luborsky, Lester Bernard A.B. (Temple University); A.M. (Duke University), Psychology.	Philadelphia, Pa.
McCurdy, John Albert B.S. in Ed. (Rutgers University), Education.	Matawan, N. J.
MacNeill, Doris Elaine B.S. (New Jersey State Teachers College at Glassboro), Education.	Pennsgrove, N. J.
Mackay, Pauline Peeler A.B. (Winthrop College), Education.	Orangeburg, S. C.

<i>Name</i>	<i>Home Address</i>
Marr, Claude Canie A.B. (Duke University), Education.	Asheville, N. C.
Martin, Thomas Leon A.B. (Duke University), Education.	Roanoke Rapids, N. C.
Meisenhelder, Nina May B.S. in Ed. (Millersville State Teachers College), Education.	Lancaster, Pa.
Miller, Marguerite Guy A.B. (Florida State College for Women), History, English.	St. Petersburg, Fla.
Mitchell, Edith Myrl A.B. (Tusculum College), History.	Greeneville, Tenn.
Moore, Nelle Elizabeth A.B. (Lambuth College), English.	Raleigh, Tenn.
Morris, Paul Tidwell B.S. (Memphis State Teachers College), Education.	Chattanooga, Tenn.
Norberg, Carl Gustav A.B. (Marshall College), Education.	Lewisburg, W. Va.
Patton, Dorothy Jean A.B. (Geneva College), English.	Beaver Falls, Pa.
Pitts, Mabel Davidson B.S. in Ed. (Georgia State College for Women), Education.	Jacksonville, Fla.
Poger, Irene Ruth A.B. (New York State College for Teachers), Education.	Oriskany, N. Y.
Poggy, Violette Elizabeth B.S. (Millersville State Teachers College), Education.	Millersville, Pa.
Puckette, Cornelia Christine A.B. (College of William and Mary), Education.	Gladys, Va.
Reed, Bruce A.B. (Glenville State Teachers College), Education.	Charleston, W. Va.
Rosinski, Sophie Anne A.B. (Villa Maria College), Education.	Erie, Pa.
Sample, Kathleen A.B. (John B. Stetson University), Botany, Zoology.	Jacksonville, Fla.
Sewell, Agnes Eleanor B.S. (State Teachers College, Towson, Md.), Education.	Baltimore, Md.
Shankle, Carl Edward B.S. (Clarion State Teachers College), Education.	Morganton, N. C.
Sharpe, Annie Lane B.S. (Georgia State College for Women), Education, History.	Rocky Ford, Ga.
Spears, Julius Hubert A.B. (Mercer University); Th.M. (Southern Baptist Theological Seminary), Religion.	Chatham, Va.
Trammell, Frances Mauldin B.S., M.S. (Alabama Polytechnic Institute), English.	Auburn, Ala.
Truscott, Ethel Irene A.B. (Coker College), English	Lomas de Zamora, Argentina

<i>Name</i>	<i>Home Address</i>
Wiley, Virginia A.B. (Randolph-Macon Woman's College), English.	Lynchburg, Va.
Wilson, Robert Seth B.S. (College of Wooster), Education	Ashtabula, Ohio
Woodward, Leonard Groninger A.B. (Duke University), Education.	Garland, N. C.

SUMMARY OF ENROLLMENT IN THE GRADUATE SCHOOL

Graduate students, Academic Year 1944-45.....	144
Graduate students, First Summer Term, 1944.....	162
Graduate students, Second Summer Term, 1944.....	65
<i>Total</i>	371
Deduct for duplications.....	70
<i>Total Enrollment</i>	301

VOLUME 17

May, 1945

NUMBER 5-B

BULLETIN OF DUKE UNIVERSITY

The School of Law



ANNOUNCEMENT FOR 1945-1946

PUBLISHED BY THE UNIVERSITY
DURHAM, NORTH CAROLINA

ANNUAL BULLETINS

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For BULLETIN OF THE COLLEGE OF ENGINEERING, apply to *The Secretary*, Duke University, Durham, N. C.

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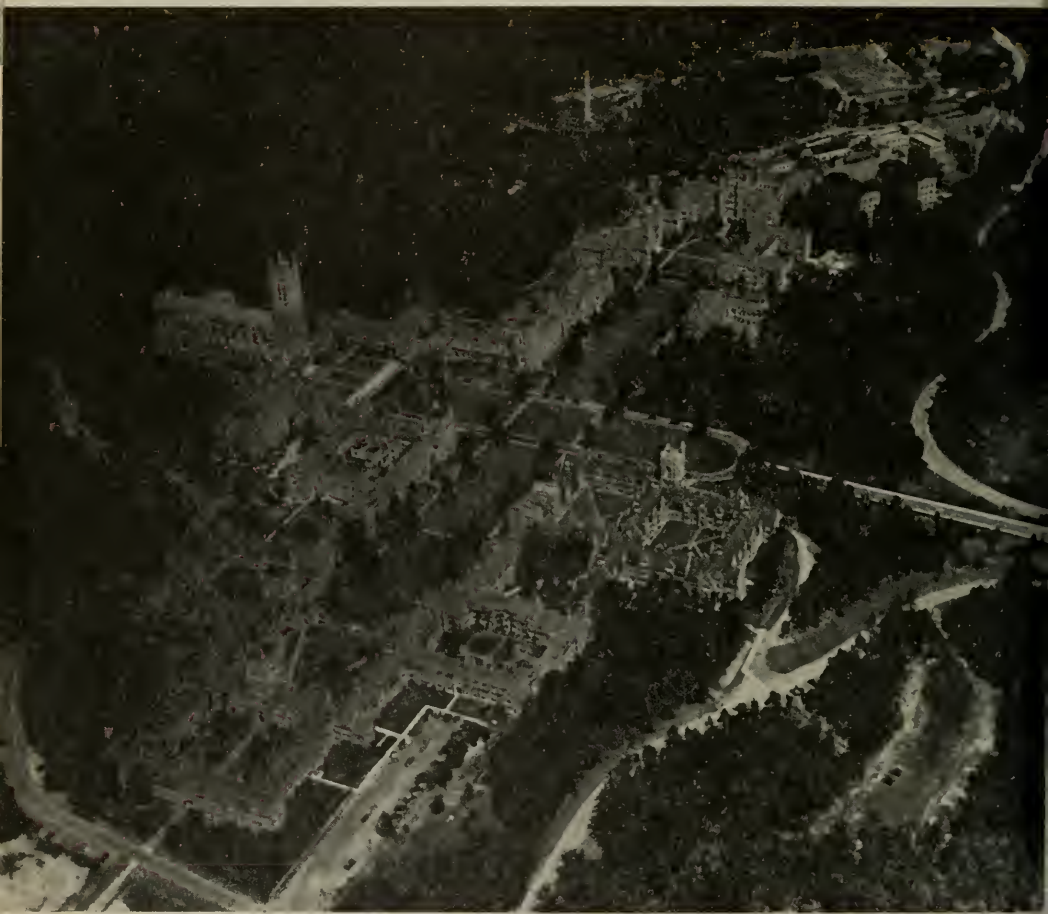
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THE SCHOOL OF LAW
(In Association with the Law School of Wake Forest College)



DURHAM, NORTH CAROLINA
1945



I. FACULTY

ROBERT LEE FLOWERS, A.M., LL.D., *President of the University*

H. CLAUDE HORACK, Ph.B., LL.B., LL.D., *Dean and Professor of Law*

Ph.B. 1899, LL.B. 1900, State University of Iowa; LL.B. 1904, Harvard University; LL.D. 1937, Tulane University; LL.D. 1939, Wake Forest College; Assistant Professor of Law, University of Wisconsin, 1904-07; Professor of Law, State University of Iowa, 1907-30; University of Michigan, summer 1922; University of Wisconsin, summer 1924; University of Southern California, summer 1931; Stanford University, summer 1936; Adviser, Council of Legal Education and Admissions to the Bar of the American Bar Association, 1927-30, member of Council, since 1940; Secretary, Association of American Law Schools, 1926-28, President, 1929; Professor of Law, Duke University, 1930-34; Dean and Professor of Law, since 1934.

BRYAN BOLICH, A.B., B.A. (Juris.), M.A., B.C.L., *Professor of Law*

A.B. 1917, Duke University; Duke University Law School, 1919-21; B.A. (Juris.) 1923, B.C.L. 1924, M.A. 1927, Oxford University; general practice, 1924-27; Professor of Law, Duke University, since 1927.

JOHN S. BRADWAY, A.B., A.M., LL.B., *Professor of Law and Director of the Legal Aid Clinic*

A.B. 1911, A.M. 1915, Haverford College; LL.B. 1914, University of Pennsylvania; general practice, 1914-29; Legal Aid Society of Philadelphia, 1914-20; chief counsel, Philadelphia Legal Aid Bureau, 1920-22; Secretary, National Association of Legal Aid Organizations, 1923-40, President, 1940-42; Visiting Professor of Law and Director of the Legal Aid Clinic, University of Southern California, summer 1928; Professor of Law and Director of the Legal Aid Clinic, University of Southern California, 1929-31; Professor of Law and Director of the Legal Aid Clinic, Duke University, since 1931.

THADDEUS DILLIARD BRYSON, LL.D., *Professor of Law*

Emory and Henry College, 1889-90; University of North Carolina, 1891-95; LL.D. 1938, Emory and Henry College; general practice, 1895-1918; Solicitor, 20th Judicial District, North Carolina, 1908-16; Judge, Superior Court, North Carolina, 1918-26; general practice, 1926-27; Professor of Law, Duke University, since 1927.

*DAVID F. CAVERS, B.S., LL.B., *Professor of Law*

B.S. in Econ. 1923, University of Pennsylvania; LL.B. 1926, Harvard University; general practice, 1926-29; Instructor in Law, Harvard University, 1929-30; Assistant Professor of Law, West Virginia University, 1930-31; Visiting Professor of Law, Yale University, first semester, 1936-37, University of Chicago, 1940-41; Assistant Professor of Law, Duke University, 1931-32; Consultant for Office of Price Administration, 1942-43; Assistant General Counsel, Office of Price Administration, 1943—; Professor of Law, Duke University, since 1932.

ELVIN R. LATTY, B.S., J.D., J.Sc.D., *Professor of Law*

B.S. 1923, Bowdoin College; J.D. 1930, University of Michigan; J.Sc.D. 1936, Columbia University; Instructor in Romance Languages, University of Vermont, 1923-27; general practice, 1930-33; Special Fellow, Columbia University, 1933-34; Associate Professor of Law, University of Kansas, 1934-35; Professor of Law, University of Missouri, 1935-37; George Washington University, summer 1937; Stanford University, summer 1938; University of North Carolina, summer 1942; Special Assistant to the American Ambassador, Caracas, 1942-43; Acting Assistant Chief, Foreign Funds Control Division, Department of State, 1943; Professor of Law, Duke University, since 1937.

CHARLES L. B. LOWNDES, A.B., LL.B., S.J.D., *Professor of Law*

A.B. 1923, Georgetown University; LL.B. 1926, S.J.D. 1931, Harvard University; general practice, 1926-27; Assistant Professor of Law, Georgetown University, 1927-28; Professor of Law, Georgetown University, 1928-30; Research Fellow, Harvard Law School, 1930-31; Professor of Law, Georgetown University, 1931-34; Professor of Law, Duke University, since 1934.

MALCOLM McDERMOTT, A.B., LL.B., *Professor of Law*

A.B. 1910, Princeton University; LL.B. 1913, Harvard University; general practice, 1913-30; Dean, College of Law, University of Tennessee, 1920-30; University of Southern California, summer 1929; Professor of Law, Duke University, since 1930.

* On leave of absence.

DOUGLAS BLOUNT MAGGS, A.B., J.D., S.J.D., *Professor of Law*

A.B. 1922, J.D. 1924, University of California; S.J.D. 1926, Harvard University; general practice, 1924-25; Assistant Professor of Law, University of California, 1926-27; Professor of Law, University of Southern California, 1927-30; Visiting Professor of Law, Columbia University, 1928-29; Yale University, second semester, 1935-36; University of California, summer 1927; Cornell University, summer 1928; University of Chicago, summer 1929; Stanford University, summer 1935; University of North Carolina, summer 1936; Special Assistant to the Attorney General of the United States, 1938-39; Special Consultant to the General Counsel, Board of Economic Warfare, 1942; Chief Consultant, Office for Emergency Management, 1942-43; Solicitor of Department of Labor, 1943-45; Professor of Law, Duke University, since 1930.

J. DOUGLASS POTEAT, A.B., LL.B., J.S.D., *Professor of Law

A.B. 1923, LL.B. 1926, Furman University; J.S.D. 1933, Yale University; general practice, 1926-30, 1933-36; Associate Professor of Law, Furman University, 1929-30; Professor of Law, Furman University, 1930-33; University of North Carolina, summer 1940; Associate General Counsel, Board of Economic Warfare, 1942-44; Executive Vice-Chairman of the American Red Cross, 1945—; Professor of Law, Duke University, since 1936.

WILLIAM R. ROALFE, LL.B., *Law Librarian

LL.B. 1922, University of Southern California; general practice, 1923-25; Law Librarian, University of Southern California, 1927-30; President, American Association of Law Libraries, 1935-36; Attorney for Office of Price Administration with Court and Opinion Division, 1943; with Bakery and Flour Division, 1944—; Law Librarian, Duke University, since 1930.

PAUL H. SANDERS, A.B., LL.B., *Associate Professor of Law

A.B. 1931, Austin College; LL.B. 1934, Duke University; general practice, 1934; Assistant to Director of National Bar Program, American Bar Association, 1934-36; Secretary, Criminal Law Section, American Bar Association, since 1940; Assistant Professor of Law, Duke University, 1936-40; Principal Mediation Officer, National War Labor Board, 1942; Regional Attorney for the Fourth Region, National War Labor Board, 1942-44; Vice-Chairman for the Fourth Region, National War Labor Board, 1944; Lt. (jg) United States Naval Reserve, 1944—; Associate Professor of Law, Duke University, since 1940.

HAROLD SHEPHERD, A.B., J.D., *Professor of Law

A.B. 1919, J.D. 1922, Stanford University; Dean and Professor of Law, University of Wyoming, 1922-23; Associate Professor of Law, Stanford University, 1923-26; Professor of Law, Stanford University, 1926-30; Visiting Professor of Law, University of Chicago, 1929-30; Professor of Law, University of Chicago, 1930-31; Columbia University, summer 1929; University of Minnesota, summer 1930; Stanford University, summer 1932; Dean and Professor of Law, University of Washington, 1931-36; Professor of Law, University of Cincinnati, 1936-39; Secretary, Association of American Law Schools, 1938-40, President, 1941; Military service, 1942—; Colonel, Ordnance Department, Army of the United States, Chief, Legal Division, Office Chief of Ordnance; Professor of Law, Duke University, since 1939.

EDWIN CONSTANT BRYSON, LL.B., *Assistant in Legal Aid Clinic*

ALTON J. KNIGHT, A.B., LL.B., *Assistant in Legal Aid Clinic*

*CHARLES HENDERSON MILLER, A.B., LL.B., *Assistant in Legal Aid Clinic*

LUDLOW T. ROGERS, A.B., LL.B., *Assistant in Legal Aid Clinic*

*ALLSTON STUBBS, A.B., LL.B., LL.M., *Assistant in Legal Aid Clinic*

MARY SIMMONS COVINGTON, A.B., LL.B., *Research Librarian, School of Law*

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HELEN MILDRED KENDALL, A.B., *Registrar*

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* On leave of absence.

II. PROGRAM

The Duke Law School, in association with the Law School of Wake Forest College, is continuing its Wartime Program which was started in the summer of 1942. Under the plan of joint operation, the two schools will remain entirely separate except that students will meet in joint classes, all of which will be held in the Law Building at the Duke Law School.

Recognizing that great difficulties beset many of those who are seeking a legal education today, the Faculty of the Duke University School of Law has endeavored to minimize them through the efficient utilization of time. In making this endeavor, it has been constantly borne in mind that, both now and in the postwar world, those well trained in the law will find adequate opportunity for service.

The details of the School's Wartime Program are set forth under their appropriate headings elsewhere in this announcement; in essence, however, it calls for a three-semester calendar year. Without sacrificing the quantity or quality of work previously required for graduation, this plan permits the full coverage of the entire regular three-year course in two calendar years if it is so desired. With but few exceptions each semester's work is complete in and of itself, and full programs for the first-, second-, and third-year students are offered each semester. Both beginning and advanced students may commence their work at the start of any of the semesters which are now scheduled to begin on May 28, 1945; September 24, 1945; January 19, 1946; and May 27, 1946.

Students who so desire may spread their work over three years by omitting one semester in any one calendar year. However, beginning students should take the first two semesters of work comprising the first-year course before omitting a semester.

In modifying its requirements to permit entrance after the completion of two years of college work, the Duke University School of Law continues to comply in full with the standards of the Association of American Law Schools and of the American Bar Association.

The University and the School of Law reserve the right to make such changes in the courses offered and in all other features of the program herein described as may be deemed necessary or desirable.

III. THE SCHOOL: ITS PURPOSES AND METHODS

Built on the foundation of the School of Law of Trinity College, with its history of legal instruction running back to the middle of the past century, the Duke University School of Law was established in 1924. In 1930 the School was moved into its new building, the Faculty and Library were greatly increased, and the activities of the School broadened. The School of Law is a member of the Association of American Law Schools and is on the "Approved List" of the American Bar Association. In the pre-war period, the School had an average representation in its student body each year of more than thirty states and sixty institutions of higher learning. Even during the war period, twenty-eight states and sixty-five institutions have been represented.

The curriculum of the School of Law provides thorough preparation for the practice of law in any state, and since the enlargement of the School in 1930, its graduates have been admitted to the bar in forty states. Opportunities for specialization in particular branches of the law are afforded.

In carrying out the trust imposed by the Indenture establishing the Duke Endowment, the School of Law seeks to have the student acquire knowledge and comprehension not only of legal doctrine, but also of the judicial process and of the social, economic, and political problems with which law and lawyers must deal. The method of instruction employed compels analysis of judicial opinions and inquiry into the non-legal as well as the legal considerations which underlie them. In appropriate courses, special consideration is given to the work of the legislative and administrative agencies of government. Scope for creative student work is provided by seminar courses and supervised individual study and research.

The student is not left to obtain practical training in his first years of practice. In the practice course and in the work of the Legal Aid Clinic, described elsewhere in this bulletin, the student secures experience in important phases of professional activity. A student Bar Association has afforded a means whereby the student may gain acquaintance with the professional organizations through which a lawyer may and should contribute to the well-being of his profession and of society. Though the situation created by the war has caused a temporary suspension of the Bar Association's activities, it is expected that it will be re-established as soon as conditions permit.

The first-year program of study is set forth on page 18; the second- and third-year programs on pages 18 and 19; the separate courses are described on pages 19 through 24.

IV. ADMISSION OF STUDENTS—REGISTRATION—FEES

DIRECTIONS TO APPLICANTS FOR ADMISSION

Applications should be made on the prescribed Law School application blanks which will be sent upon request, and no application is complete until all required documents are on file. Each application for regular or advanced standing must be accompanied by a complete transcript of record and evidence of graduation or right to honorable withdrawal from the institution from which credit is offered. To the application blank should be attached a recently made personal photograph. Except in the case of veterans, letters from responsible persons with whom the applicant has been associated are required. Such letters should certify as to the character and ability of the applicant.

It is desired that students may be selected who give promise of leadership in some of the various phases of professional activity. It is recognized that such selection is difficult. Graduation from Duke University School of Law, however, is intended to constitute evidence of capacity for superior work in some branch of the profession of law. Applicants for admission and their sponsors are requested to keep this fact in mind.

REQUIREMENTS FOR ADMISSION

Though the normal requirement for admission as a candidate for the degree of Bachelor of Laws has been three years of work completed in a college of approved standing, during the present emergency students presenting only two years of college credit (one-half of the work acceptable for a Bachelor's degree granted on the basis of a four-year period of study) may be accepted provided they show a higher average of work than that required for graduation in the college from which credits are offered. However, it is deemed most desirable that an applicant have at least three years of college credit before beginning law study.

It is not required that students take any specific subjects so long as the courses taken have intellectual content of substantial value.

It is expected that a uniform rule requiring three years of college work for entrance will be re-established at some time prior to or soon after the termination of the war. When the three years of college work are required for entrance, special provision will be made for the admission of veterans as stated below.

VETERANS' ADMISSION REQUIREMENTS

Any person who served in the active military or naval service on or after September 16, 1940, and prior to the termination of the present war, and who shall have been discharged or released therefrom under conditions other than dishonorable, and who either shall have served ninety days or more (exclusive of any period he was assigned for a course of education or training under the Army Specialized Training

Program or the Navy College Training Program), or shall have been discharged or released from active service by reason of an actual service-incurred injury or disability, may substitute such term of service for one year of the three-year college entrance requirement. Academic credits will be recognized if gained through examinations on work of college grade pursued while in the military or naval service, if such work is given credit by an approved college; such credits, however, may not exceed one year of the required two years of college study.

The Duke University School of Law has been approved by the Veterans' Administration for law study under the provisions of the Vocational Rehabilitation Act, Public Law 16, and the Servicemen's Readjustment Act of 1944, Public Law 346, often referred to as the "G.I. Bill of Rights." Duke University maintains an office for the handling of the interests of the many students studying under the supervision of the Veterans' Administration. The Secretary of the University is liaison representative and any matters concerning veterans' rights may be taken up with his office.

GRADUATE RECORD EXAMINATION

The Carnegie Foundation for the Advancement of Teaching provides for examinations to be conducted in many parts of the country whereby a student has an opportunity to test his own performance and to obtain an impartial record of his knowledge. The scores given represent the student's standing with respect to his knowledge of the subjects tested. Applicants for admission are advised that reports of their scores on the Graduate Record Examinations will be regarded as valuable evidence concerning their fitness for admission as it is a test of the student's general intellectual accomplishment. Though not required, the scores made on this examination will be welcomed as an especially desirable credential. Students who take a Graduate Record Examination must make their arrangements directly with the Graduate Record Office, 437 W. 59th St., New York City. The charge for this examination is a nominal fee of \$3.00.

COMBINED COURSE

A number of colleges, upon application by their students, have permitted those who have completed three years of undergraduate work to enter the Law School of Duke University and upon the satisfactory completion of the first year of law school work to receive their Bachelor of Arts degrees from such colleges. It is suggested that students desiring to enter Duke University School of Law make inquiry of their proper college authorities regarding this point.

A student from an undergraduate college of Duke University who has completed three years of study may apply to that college to enroll in a combined course wherein his first year of law study may be accepted toward the Bachelor of Arts degree, and, upon the completion of four additional semesters of law study, he will receive the Bachelor of Laws degree.

ADMISSION TO ADVANCED STANDING

Any person who has complied with the requirements for admission set forth in this announcement prior to the commencement of his law study, who shall present evidence of the satisfactory completion of any part of the curriculum at any law school which is a member of the Association of American Law Schools, and who is eligible for readmission to the law school from which he proposes to transfer may be admitted to advanced standing, subject to such rules as would be applicable to students in this School having a comparable scholastic record. Provisional credit for courses so completed shall be given, final credit for such work to be conditioned on the completion of at least one full year of law study in this School with an average at least five points above the passing grade. Adjustment of credit for work done in such other law schools may be made by the Dean or by vote of the Faculty.

CANDIDATES FOR GRADUATE DEGREES

Applications for admission to graduate study should be addressed to the Dean of the Law School and should include transcripts of records of legal and pre-legal work. For the requirements for the graduate degrees see pages 12 and 13.

MATRICULATION, REGISTRATION, AND ENROLLMENT

Registration must be completed on the first day of each semester. Instruction will begin in all classes on the following day. The applicant must obtain from the Dean of the Law School an admission card, indicating that he is entitled to register. Registration is conducted in the Law Building. All students, both old and new, are required to register at the beginning of each semester, at which time class schedule and course cards must be filled out and approved. Students matriculating in any semester at a date later than that prescribed in this bulletin shall pay to the Treasurer a penalty of \$5.00 for late registration unless excused therefrom.

REGISTRATION FOR BAR EXAMINATIONS

Many states now require that the student, prior to or shortly after beginning the study of law, must register with the board of bar examiners of the state in which he expects to practice. Each student should write to the secretary of the board of bar examiners of such state in order to be sure that all requirements are fulfilled.

CONDUCT OF STUDENTS

All students are admitted subject to the rules of the University and of the School of Law, and continuance in the School is conditioned upon the observance of such rules.

The University expects of its students loyal and hearty co-operation in developing and maintaining high standards of conduct as well as of scholarship. The University, therefore, reserves the right, and matriculation by the student is a concession of this right, to compel the withdrawal of any student whose conduct at any time is not satisfactory to the University, even though no specific charge be made against the student.

FEES AND EXPENSES

During the joint operation of the Duke University School of Law and the Law School of Wake Forest College, a uniform charge of \$125.00 per semester is made which includes tuition and fees. Payment must be made on or before registration day. A graduation fee of \$10.00 is payable by all students to whom a degree is awarded.

Board may be secured at approximately \$36.00 per month at the University Union.

The cost of law books will average, through the three years, between \$20.00 and \$30.00 per semester.

THE GRADUATE DORMITORY AND THE "LAW CABINS"

Furnished double rooms may be secured in the graduate dormitory on the West Campus at \$62.50 per person per semester. A few single rooms are available at \$75.00 per semester.

A group of log cabins, a part of the dormitory system, especially designed as a study center for law students, is located in the Duke Forest about five minutes' walk from the Law Building. These cabins, five in number, including a large cabin for use as a social hall, house thirty-two students. All rooms in the law cabins are furnished double rooms and may be secured at \$40.00 per person per semester.

These charges in each case include heat, light, water, and janitorial service but do not include pillows or bed clothing of any kind.

Rooms are reserved only for applicants who have been officially accepted by the University, upon application to the Director in the Business Division, Duke Station, Durham, North Carolina. A reservation fee of \$25.00 must accompany the application for a room. The reservation fee is deducted from the room charges at the time of registration.

Each student is expected to supply necessary sheets, blankets, pillows, rugs, and curtains. Furniture, beds and mattresses (39" x 74"), tables, chairs, dressers, mirrors, and window shades are furnished by the University.

Law students are advised to make early application, since assignment of rooms is made considerably in advance of the beginning of each semester. The applicant should state that he has been accepted for admission to the School of Law. All dormitory or cabin rooms are to be occupied under the rules and regulations established by the University. Law students are not required to live in the University dormitories.

Further information will be sent upon request. Please address

THE DEAN OF THE SCHOOL OF LAW
DUKE UNIVERSITY
Durham, North Carolina

V. REQUIREMENTS FOR BACHELOR OF LAWS DEGREE

BACHELOR OF LAWS DEGREE

Upon favorable recommendation of the Faculty, the degree of Bachelor of Laws will be conferred on students who shall have successfully completed six semesters' study of law, the last two semesters of work immediately preceding the granting of such degree having been completed in this School.

A student shall be deemed to have completed successfully six semesters' study of law if during this period he has

(1) secured a passing grade in courses aggregating the number of semester hours in the first-year program, in required courses in other years, and in courses constituting its faculty-approved student minimum programs for the second and third years;

(2) secured in every required course a grade not requiring repetition thereof; and

(3) secured an average grade at least five points above passing in all work taken other than first-year courses, or, if the grade in such work is lower than that above specified, an average grade of five points above passing in all work taken.

Students who shall have spent only their last two semesters of study in residence in this School must have received an average grade at least five points above passing for that year.

VI. GRADUATE WORK IN LAW

REQUIREMENTS FOR ADMISSION TO GRADUATE STUDY

Any person who shall have received the first degree in law from a law school qualified for membership in the Association of American Law Schools may be admitted as a candidate for the degree of Master of Laws. In exceptional cases an applicant who does not meet all the above requirements may, on vote of the Faculty, be admitted to candidacy for this degree where he is able to demonstrate that he is specially qualified, as by reason of practice or teaching.

Any person holding the degree of Master of Laws from this or any other law school which is qualified for membership in the Association of American Law Schools, on vote of the Faculty, may be admitted to candidacy for the degree of Doctor of Juridical Science provided he completed the work for the Master's degree with distinction.

The Faculty, however, may require of an applicant complying with this standard the publication of legal writings deemed satisfactory by the Committee on Graduate Study as a condition to admission to candidacy for this degree.

THE DEGREE OF MASTER OF LAWS

Upon favorable recommendation of the Faculty, the degree of Master of Laws will be conferred on students who have successfully completed during a period of residence at this School totaling at least two semesters a course of study approved by the Committee on Graduate Study.

The courses of study leading to this degree are designed to provide for the needs of two classes of students: (1) graduates of approved law schools who desire an extra year of study for the purpose of undertaking an intensive study of some specialty, or who desire to broaden their legal education; (2) graduates of approved law schools who desire to teach law or engage in legal research and who intend to become candidates for the degree of Doctor of Juridical Science.

No thesis is required for the degree of Master of Laws. The course of study is prescribed by the Committee on Graduate Study after consultation with the individual student. Opportunity will be afforded the student to include in his program such second- and third-year law courses, not already completed, as are desirable for the rounding out or supplementing of his previous training. In some cases, courses in other departments of the University may be included. In the case of students whose interests lie in further preparation for practice, the course will normally include registration in subjects totaling twelve hours each semester. In the case of students interested primarily in legal research, a lighter schedule, so far as enrollment in formal courses is concerned, may be arranged. In cases where less than twelve hours work is pre-

scribed for either semester, the Committee on Graduate Study may require that the student complete the work undertaken with a grade considerably higher than that required of candidates for the first degree in law.

THE DEGREE OF DOCTOR OF JURIDICAL SCIENCE

Upon favorable recommendation of the Faculty, the degree of Doctor of Juridical Science will be conferred on students admitted to candidacy for that degree who complete and submit a monograph or series of essays suitable for publication and deemed by the Faculty to be of distinguished character. At least one academic year, and, in the absence of an extension granted by the Faculty upon petition thereto, not more than three years, must elapse between the awarding of the Master's degree and the awarding of the degree of Doctor of Juridical Science. Students who have received the degree of Master of Laws from another law school must spend at least two semesters engaged in research at this School and in addition may be required to complete a course of study prescribed by the Committee on Graduate Study.

VII. SPECIAL FACILITIES AND ACTIVITIES

THE LAW SCHOOL BUILDING

The Law Building, like all other structures on the main campus of Duke University, is in Tudor Gothic style of colorful Cambrian stone from the Duke University quarries. It was occupied by the School of Law for the first time in September, 1930. In it are classrooms, seminar rooms, offices for Faculty and Staff, quarters for the Legal Aid Clinic and for the Duke Bar Association, a courtroom equipped for trial court and appellate court sessions, and the Law Library. For a description of dormitory accommodations, see page 10.

THE LAW LIBRARY

The Law Library, containing a collection of seventy-eight thousand volumes, is the largest law school collection in the South. It consists of American and English statutory and case law; a collection of Continental law materials; treatises, digests, encyclopedias; the various selected case series; a comprehensive collection of legal periodicals; and publications in the fields of history, economics, government, and the other social sciences, supplemental to the strictly legal materials. The Library receives every current legal periodical of general interest printed in the English language.

There are several thousand additional volumes of a legal nature in the main library building, immediately adjoining the Law School, as well as the general collection of nearly a half million volumes, to all of which the law students and Faculty have convenient access.

The Law Library is administered by a professionally trained staff and is open to the public daily throughout the year and in the evenings as well whenever the Law School is in session.

THE LEGAL AID CLINIC

A Legal Aid Clinic was organized at the School of Law in 1931 under the direction of Professor John S. Bradway, who had directed similar undertakings in Philadelphia and Los Angeles. The purpose of the Clinic is threefold: to give the student experience in handling actual cases; to develop creative skills, techniques, and mental habits; to encourage a sense of responsibility to client, court, profession, and community. The student is obliged to synthesize his knowledge in applying it to concrete situations which may often cut across course boundaries. He is introduced to the technique of fact gathering, the steps in a legal plan of campaign, the handling of clients, the management of a law office. A series of exercises are conducted in legal research and briefing leading in the first semester to the writing by each student of a trial brief and in the second semester an appellate brief for a lawyer in active practice. Classroom work involves laboratory exercises in preparation for the

handling of actual cases. The law practice in the Clinic is of a sort calculated to stress the ethical responsibilities of the lawyer and the social implications of his work. Instruction in the handling of the actual cases is individualized. Training in the art of interprofessional co-operation is provided through contacts between the Clinic and various agencies of social welfare in North Carolina.

The Legal Aid Clinic is in effect an active law office offering the student, under supervision, experience in interviewing actual clients, investigation of facts, preparing cases for adjustment or for trial in court, writing legal documents, briefing, and other tasks familiar to the practicing attorney. Approximately four hundred persons a year apply for the services of the Clinic. Only those applicants who are unable to pay counsel fees, and only those cases where there is no opportunity for a contingent fee are accepted.

The activities of the Clinic are centered in a suite of offices in the Law School Building, and in an interviewing office in the business center of Durham. In addition to the Director, a staff of four members of the North Carolina State Bar assist in the educational and supervisory activities of the Clinic and in representing its clients in court proceedings. The course is required for graduation. The work in the Clinic in no way conflicts with that in the practice course.

THE PRACTICE COURSE

The practice course in the School of Law is under the direction of Judge T. D. Bryson, who for eight years was judge of the Superior Court of the Twentieth Judicial District of North Carolina. The object of the course is to offer advanced students an opportunity to visualize by actual experience the application of the principles of law imparted in other courses.

The course features trial court practice in both civil and criminal actions, appellate practice, the drawing of contracts and wills, making abstracts of titles, and drafting of other legal papers incident to the work of the active legal practitioner. In order that the work may correspond to the work of a trial court, a courtroom with the usual appointments has been provided.

LAW AND CONTEMPORARY PROBLEMS

The School of Law publishes a quarterly, *Law and Contemporary Problems*, under the editorship from time to time, of Professors Cavers, Sanders and Latty. This periodical, now in its eleventh volume, presents in each issue a symposium on a problem of current legal importance, in which the interrelated social and economic, as well as legal, factors are discussed by writers of competence in these respective fields. Where student research may contribute to the understanding of the legal aspects of such problems, student writings are accepted for publication. Included among the topics discussed in the first ten volumes of *Law and Contemporary Problems* are food and drug control, low-cost housing, installment selling, migratory divorce, alimony, expert testimony, social security legislation, the compensation of the motor accident victim, the Securities

Act of 1933, price discrimination and price cutting, collective bargaining under the Wagner Act, the wage and hour law, the Sherman Antitrust Act, federal income and estate taxation, railroad reorganization, alcoholic beverage control, combating the loan shark, governmental marketing barriers, consumption taxes, emergency price control, governmental tort liability, labor in wartime, excess profits taxation, renegotiation and termination of war contracts, and children of divorced parents.

The circulation of *Law and Contemporary Problems* extends not only to members of the legal profession and law libraries throughout the country, but also to industrial and financial concerns, governmental agencies, and public and general university libraries. Individual issues are not infrequently used as materials for study in university courses.

THE DUKE BAR ASSOCIATION

The Duke Bar Association was established in the spring of 1931. It is composed of all the students of the Law School and is organized along the lines of the American Bar Association. Its purpose is to introduce the student to the problems considered by the bar in professional organizations and to develop professional consciousness and responsibility. The activities of the Association, which included publication of the *Duke Bar Association Journal*, have been suspended during the war period. Dean Horack of the Law Faculty served as general adviser to the student officers.

SCHOLARSHIPS AND LOAN FUNDS

A limited number of scholarships covering tuition and matriculation fees (\$250) are available to first-year students, graduates of approved American universities and colleges, who are in need of such assistance. Applicants must have made excellent records in their college work and must show unusual promise of success in the study of law.

Applications for scholarships should be presented to the Dean of the Law School, together with a transcript of college work and letters of recommendation from responsible persons, certifying to the character and fitness of the applicant.

Other scholarships are awarded, as funds may permit, to high-ranking students who have spent a year or more at the Law School. There are also a number of positions as assistants in the Law Library and as research assistants which are open to students, particularly in their second or third year, who do not receive other aids from the University.

The University administers certain endowed loan funds for the benefit of students who are not financially able to meet their expenses, for the purpose of aiding worthy students who have established a satisfactory record at the School to continue their education.

Two funds have been provided out of which small loans may be made to tide students over temporary financial emergencies arising during the course of the year. One of these was supplied by the Law School Guild and is limited as to amount and duration of loan. The other is due to the generosity of Mr. P. Frank Hanes of the Winston-Salem bar and is limited to the needs of selected students. These funds are administered by a committee of the Faculty.

WILLIS SMITH PRIZE

Mr. Willis Smith, a member of the Raleigh bar and Chairman of the Law School Committee of the Board of Trustees of Duke University, awards each year to that member of the graduating class of the Law School who has maintained the highest scholastic average during the entire three years of law school work, a prize consisting of a set of books selected personally by Mr. Smith each year for that purpose. To qualify for this prize the student must have made an outstanding record throughout his law school course.

ORDER OF THE COIF

A chapter of the Order of the Coif, national legal scholarship society, has been established at Duke University School of Law. Its purpose is "to foster a spirit of careful study and to mark in a fitting manner those who have attained a high grade of scholarship." Election is restricted to the ten per cent of the graduating class who have attained the highest rank in their law school work.

RECREATIONAL FACILITIES

The University is located about two miles from the business district of Durham on wooded hills constituting part of the five-thousand-acre Duke Forest, which is maintained by the School of Forestry. Within a short distance from the campus are facilities for golf, horseback riding, and woodland hiking. These activities are available the year round in the mild climate of the Piedmont section of North Carolina. Students of the Law School are entitled to the use of the University gymnasium, tennis courts, swimming pool, and similar privileges without cost. Motion pictures are shown in Page Auditorium twice a week, and concert programs, recitals, lectures, and plays are presented frequently.

VIII. COURSES OFFERED

THE FIRST-YEAR PROGRAM

In order to make possible the accelerated program and to minimize loss of time for persons discharged from military service, all first-year courses are one-semester courses, thus making possible the beginning of law study in any semester. With but few exceptions courses previously continuing for two semesters are now completed in one semester but the total number of hours devoted to each course has not been diminished.

All of the first-year courses are required for graduation, although a student transferring to this School may, with the approval of the Dean, substitute therefor the first year of work taken in the school from which he has transferred. Repetition of a first-year course which a student has failed is required only if the instructor so indicates upon reporting the student's grades.

The first-year program will be repeated every two semesters and a student entering in any semester may complete his first year's work by the end of the succeeding semester.

The courses listed below comprise the work of the first year. Course descriptions appear later in this bulletin.

FALL SEMESTER, 1945		SPRING SEMESTER, 1946	
<i>Subject</i>	<i>Hours</i>	<i>Subject</i>	<i>Hours</i>
Criminal Law	3	Agency	2
Introduction to Procedure	3	Contracts	6
Personal Property	2	Family Law	2
Torts	5	Possessory Estates	2
Legal Bibliography	1*	Legal Bibliography	1*
	<hr/> 14		<hr/> 13

* To be taken only during the student's first semester of law study.

THE SECOND- AND THIRD-YEAR PROGRAM

Courses in the second and third years are elective, with the exception of Legal Ethics and Legal Aid Clinic I and II. Two semesters work in the Clinic is required of all students.

The satisfactory completion of forty-eight semester hours in addition to the first-year program is required for graduation. Second- and third-year students usually carry from thirteen to fifteen hours of courses each semester.

Up to two hours credit per semester may be obtained by students arranging either to engage in the individual study of a branch of law or to conduct research on a legal problem. Arrangements for such work may be made upon the recommendation of the instructor under whose supervision it is to be carried out.

The course in Pleading is prerequisite to the course in Practice. Except with the permission of the instructor, students may not enroll in courses numbered II before completing courses of the same name numbered I. Permission of the instructor is also required for enrollment in Federal Taxation Seminar by students who have not completed Taxation.

The courses for the second and third years of law study have been arranged in a sequence of four semesters. Each such course will be offered at least once during the four-semester period, but most of them will be offered only once. Irrespective of the semester in which he begins his second-year work, the student who continues through four successive semesters will normally have an opportunity to select from the School's entire offering of courses.

It is expected that this arrangement will be carried through subject to such changes as the Faculty may find to be necessary or desirable.

The courses listed below are planned to be offered for second- and third-year students and are more fully described later in this bulletin. Advanced students or students wishing to transfer from other law schools should write to the Dean of the Law School for the program of courses for the semester in which they are interested.

<i>Subject</i>	<i>Hours Per Semester</i>	<i>Subject</i>	<i>Hours Per Semester</i>
Administrative Law	2	Legal Aid Clinic I	3
Business Associations I	4	Legal Aid Clinic II	2
Business Associations II—Finance and Accounting	3	Legal Ethics	1
Conflict of Laws	3	Legislation	2
Constitutional Law	5	Municipal Corporations	2
Conveyancing	3	Negotiable Instruments and Banking	3
Credit Transactions	4	North Carolina Statutes	2
Debtors' Estates	3	Pleading	3
Equity I	3	Practice	4
Equity II	3	Regulation of Business	3
Evidence	4	Sales	2
Family Law Seminar	2	Seminar in Federal Taxation	2
Federal Jurisdiction and Procedure	2	Taxation	4
Future Interests	3	Trusts	3
Individual Study and Research	2	Wills and Administration of Estates	3
Labor Law	2		

1. GENERAL COURSES

Torts. Liability in damages for injuries to person and property inflicted intentionally, negligently, or innocently; justification and excuse; contributory negligence; proximate cause. Liability for false representations, defamation, inducing breach of contract, interference with business relations, unfair competition, strikes, etc. The measure of damages in tort cases. Five hours a week.

Equity I. The origin and jurisdiction of equity; equitable relief as based on the inadequacy or lack of a legal remedy; the relation of equity and the common law; enforcement of equitable decrees; application of the discretionary maxims; injunction against tort and crime. Three hours a week.

Equity II. Specific performance as a remedy for breach of contract, with special attention to contracts for the sale of land and incidents of the vendor-purchaser relation. Mistake in integration; reformation for mistake. Three hours a week.

Trusts. The nature, creation, and elements of a trust; charitable trusts; resulting and constructive trusts; administration of trusts; liabilities to third persons; transfer of the *cestui's* interest; persons bound by a trust; termination of a trust. Three hours a week.

Conflict of Laws. A study of the territorial jurisdiction of courts, the enforcement of foreign judgments, and the problems arising when the operative facts of a case are connected with jurisdictions having different rules of law. A part of the course will be directed to the study of assigned problems, utilizing related cases in the casebook for the purpose. Three hours a week.

Family Law. A seminar approach to the cases, statutes, and sociological theories covering the contract to marry, its formation and breach; marriage; annulment; divorce; separation; property rights; and international jurisdiction. Selected materials. Two hours a week.

Family Law Seminar. A seminar approach to the efforts of the social sciences, including the law, to deal with the intricate and perplexing problems of the modern family. Readings are assigned in legal and sociological material. Class discussions are based upon some central topic, such as divorce, domestic relations courts, etc. Written reports required in lieu of an examination. Family Law is prerequisite. Two hours a week.

North Carolina Statutes. A study of selected statutes of North Carolina with discussion of their application, and an analysis of the decisions of the Supreme Court of North Carolina construing them. Two hours a week.

2. BUSINESS COURSES

Contracts. Sealed contracts; problems in the formation of simple contracts (making of promises and judicial standards of interpretation, offer and acceptance); the consideration doctrine; third party beneficiaries; assignments; Statute of Frauds, including legal effects of failure to comply; joint and several contracts; the performance and breach of contract (conditions, order of performance, anticipatory breach); illegal bargains (types, nature and effect of illegality), discharge of contracts. Rules and principles of damages in contract actions. Six hours a week.

Agency. Creation, duration, and termination of the employment relation, including personal injury risks in the employment relation and workman's compensation; risks in business operations conducted through or for other persons, including *respondeat superior*, authority of various types of agents, managers, partners; an introduction to forms of business enterprise as bearing upon the risks (and limitations thereon) of conducting business in association with other persons. Two hours a week.

Sales. Emphasis is on obligations, performance and remedies of buyer and seller, and not on proprietary aspects of sales transactions. A study of the price term, manner, place, time and quantity of delivery, acceptance, inspection, installment contracts, obligations as to quality, remedies and price recovery, damages, recoupment, rejection, resale and rescission. Two hours a week.

Negotiable Instruments and Banking. Negotiability; execution of negotiable instruments; formal requisites of negotiable instruments; liability of parties; negotiation; holders in due course; and discharge. Legal relations between customer and banker; duties of depositor and bank toward each other; collections, and banker's lien and set-off. Three hours a week.

Business Associations I. Emphasis is more on corporations than on partnerships, joint-stock companies, or business trusts. In approximately the following order are studied: formation of these business associations, problems of their "entity," position of the management, ultra vires, stockholders' rights and

powers, stock structure and classification of shares, function of corporate capital and its bearing on dividends and stock purchases, liability on subscriptions, watered stock, stock transfer, stockholders' suits. Brief survey is given of capital reductions, capital readjustments, fundamental corporate changes and marketing of securities, all of which are studied more in detail in the Finance and Accounting course. Four hours a week.

Business Associations II—Finance and Accounting. A study of capital readjustments (but not reorganization of insolvents); capital, surplus and capital reductions; relation of accounting to ascertainment of funds available for distribution and other purposes, with introduction to book entries and emphasis on asset valuation; no-par stock; blank stock; preferred stock provisions with emphasis on the draftsman's problems and point of view; hybrid and convertible securities; corporate bonds and indentures; marketing and administrative control of corporate financing, including the provisions of relevant state or federal legislation. Three hours a week.

Credit Transactions. Consideration of suretyship and guaranty, letters of credit, trust receipts, contracts of accommodation parties on bills and notes, real property and chattel mortgages, pledges, conditional sales. Four hours a week.

Debtors' Estates. A comparative study of the various legal devices available for the administration of debtors' estates—compositions, assignments for the benefit of creditors, receiverships and bankruptcy including proceedings for debtors' rehabilitation and corporate reorganization under the Bankruptcy Act. Three hours a week.

Regulation of Business. See Public Law Courses, below, for description. Three hours a week.

3. PROPERTY COURSES

Personal Property. Property in chattels, application of the concepts of possession and title in the law of personal property; bailment; artisan's lien; transfer of chattels by gift; sale and miscellaneous *inter vivos* transactions; emblements and fixtures. Special attention is given to judicial process and technique. Problems of chattel mortgages, pledges, and of sales financing are not considered in this course, except incidentally, but are reserved for the course in Credit Transactions. Two hours a week.

Possessory Estates. Historical introduction to real property with a detailed consideration of the modern law of possessory estates in land, including the fee simple, the fee tail, the life estate, the estate for years, concurrent estates, and the incidents of possessory ownership relative to water, lateral and subjacent support, and air. Two hours a week.

Conveyancing. Form and execution of deeds; description in deeds; incorporeal interests in land; adverse possession and prescription; covenants and agreements running with the land at law and in equity; estoppel by deed; recording and title registration. Three hours a week.

Future Interests. Future interests in real and personal property; reversions; vested and contingent remainders; executory interests; rights of entry; possibilities of reverter; gifts to classes; powers; perpetuities; construction of wills and deeds as affecting the validity and characteristics of the interests created thereby. Three hours a week.

Wills and Administration of Estates. The rationale of succession; mental capacity to make a will; undue influence and fraud; execution of wills; testamentary character and intent; integration of wills; revocation of wills; condition and mistake; revalidation of wills; function and necessity of probate and administration; grant of probate and administration; management, distribution, and settlement of the estate. Three hours a week.

Trusts. See General Courses, page 20, for description. Three hours a week.

4. PUBLIC LAW COURSES

Criminal Law and Its Administration. Survey of criminal procedure and of the lawyer's function in the administration of criminal justice; theories of crime and of punishment in the criminal law; consideration of the criminal act and of the mental element in crime; specific offenses at common law and as developed by statutes; appropriate defenses in relation to the specific crimes. Three hours a week.

Constitutional Law. Judicial protection against arbitrary governmental action; the history of the notion of a "higher law"; the concepts applied and the constitutional clauses relied upon; the development and application of particular doctrines protecting from arbitrary governmental action individuals with respect to their persons and individuals and corporations with respect to their property and business activities. The division of fields of control between the federal and the state governments. Five hours a week.

Administrative Law. Quasi-legislative and quasi-judicial functions of administrative tribunals, boards and officers. Constitutional limitations, growing out of the doctrine of the separation of powers and the doctrine of the non-delegability of legislative power, upon the creation and allocation of administrative functions. Practice and procedure before administrative tribunals, boards and officers; constitutional limitations upon administrative procedure. Judicial control and review of administrative orders and decisions. Two hours a week.

Labor Law. The National Labor Relations Act and related legislation. Federal and state anti-injunction statutes and their background. The law relating to strikes and the conduct of strikers, the labor agreement and the responsibility of unions. Labor problems in wartime. Two hours a week.

Legislation. The interpretation of statutes; the subject matter and purpose of the statutes; the context; associated words; parts of the statute in relation to the whole; extrinsic aids; statutes in relation to other statutes; statutes in relation to the common law; the applying of statutes; the operation and effect of statutes. Two hours a week.

Regulation of Business. A study of federal and state legislation designed to maintain competitive markets and to regulate competitive practices, followed by a study of certain systems of direct price control imposed by law in certain industries. Consideration will also be given to wartime economic controls and their possible postwar implications. Three hours a week.

Municipal Corporations. The nature of municipal corporations; their external constitution; their internal constitution; their powers; their liabilities; remedies for and against municipal corporations. Two hours a week.

Taxation. The principal taxes are considered. Special stress is laid upon the federal tax system and the major federal taxes are analyzed in some detail. The course includes the constitutional law of taxation, both in its broader aspects and in its narrower incidence upon the particular types of taxes. Four hours a week.

Seminar in Federal Tax Problems. This course is designed for students desiring advanced work in federal taxation. In addition to a study of the administrative and procedural aspects of the federal tax system, emphasis is laid upon the interrelation of the various federal taxes, tax control, and analysis of some of the more complex provisions of the federal tax statutes. The method of instruction is by group discussions and personal conferences with the instructor. Two hours a week.

5. PROCEDURE AND PRACTICE COURSES

Introduction to Procedure. An introductory study of the most commonly used procedural devices by which disputes are brought before the courts for adjustment, and the techniques employed in the judicial process for

effecting these adjustments, including the control of the trial court by appellate tribunals. The course will also include a study of modern reforms of pleading in so far as they are pertinent. Three hours a week.

Pleading. Remedial law as applied in code jurisdictions. The form, theory, and classification of civil actions and special proceedings, together with a complete analysis of the several pleadings available in such actions and special proceedings. Three hours a week.

Practice. The practical work of lawyers; drafting instruments; preparation of pleadings and trial briefs; the various trial methods and steps taken in the trial of the case; removal of cases from state to federal courts; noting and perfecting appeals; the appeal briefs; procedure in the Supreme Court. Four hours a week.

Evidence. Admissions in pleadings, and stipulations; burden of proof, and presumptions; judicial notice; parole evidence rule; determination of admissibility of evidence; documentary evidence; witnesses; opinion testimony; the hearsay rule; circumstantial evidence; real evidence; evidence illegally obtained; contracts altering or waiving rules of evidence. Four hours a week.

Federal Jurisdiction and Procedure. Functioning of federal courts including such topics as original jurisdiction, removal of causes, the statutory court, appellate jurisdiction of the Circuit Courts of Appeal and Supreme Court. Consideration will also be given to the rules of civil procedure for the District Courts of the United States. Two hours a week.

Legal Ethics. A seminar approach to the legal problems of the lawyer and the profession. Readings are assigned in legal biography, law reform, the history of the profession, legal aid work. Class discussions cover canons of ethics, statutes, cases, opinions of grievance committees dealing with the daily problems of the practicing lawyer. A written report is required on some phase of the reform of the administration of justice. Required for graduation. One hour a week.

Legal Aid Clinic I. The objectives of the course are: to give the student experience in actual cases; to develop creative skills, techniques and mental habits; to encourage a sense of responsibility to client, court, profession and community. Students under supervision of staff attorneys and in co-operation with members of the Durham bar, court officials and social and other professional agencies in the community, engage, so far as students may, in the handling of actual cases from the first interview with the client until the final disposition of the problem by litigation or otherwise. Trial briefs are prepared for lawyers in active practice. Required for graduation. Three hours a week.

Legal Aid Clinic II. The students continue their work with actual cases and clients. In addition they are given experience in special exercises such as drafting legal documents, dealing with members of other professional groups, conciliation proceedings. Appellate briefs are written for lawyers in active practice. Opportunity is afforded for special work in fields of particular interest. Required for graduation. Two hours a week.

6. LEGAL RESEARCH AND WRITING

Legal Bibliography. A historical study of the development of law books with particular emphasis upon the more important sets and classes of volumes, together with actual practice in the use of the books themselves for the purpose of developing facility in legal research. One hour a week, each semester.

Individual Study and Research. With the approval of the Faculty, a student may, after completing the first year of law study, obtain up to two hours credit per semester by the study of, or special research in, a field of law under Faculty supervision. Selected students who have shown proficiency in law study may undertake the preparation of studies for publication in *Law and Contemporary Problems* under the supervision of the editors.

The foregoing courses as here offered are subject to change.

Upon recommendation of the Committee on Graduate Study, seminars not listed in the bulletin may be created or arrangements made for supervision of special research by individual graduate students in any subject.

All matters presented in this bulletin are subject to change as the University or the School of Law may deem expedient.

Duke University School of Law

Publishes

Law and Contemporary Problems

Each issue of this publication is devoted to a symposium exploring not only the legal but also the economic and other social-science aspects of current problems that cross the lawyer's desk.

Symposiums published or to be published in 1945 and 1946 include

Enemy Property Financing Small Business Postwar Aviation

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1945

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UNIVERSITY CALENDAR

TRINITY COLLEGE AND THE COLLEGE OF ENGINEERING

July-October, 1945

July	2, 3	Monday, Tuesday—Orientation and registration.
July	4	Wednesday, 8:00 A.M.—Instruction begins.
Aug.	22	Wednesday—Mid-semester grades due.
Oct.	17	Wednesday—Final examinations begin.
Oct.	23	Tuesday—Final examinations end.
Oct.	24	Wednesday—Recess begins.

November, 1945-February, 1946

Nov.	1-2	Thursday, Friday—Orientation and registration.
Nov.	3	Saturday, 8:00 A.M.—Instruction begins.
Dec.	11	Tuesday—Duke University Day.
Dec.	15	Saturday—Mid-semester grades due.
Dec.	22	Saturday, 3:00 P.M.—Christmas recess begins.
Dec.	27	Thursday, 8:00 A.M.—Instruction resumed.
Feb.	18	Monday—Final examinations begin.
Feb.	23	Saturday—Final examinations end.
Feb.	24	Sunday—Recess begins.

March-June, 1946

March	1-2	Friday, Saturday—Orientation and registration.
March	4	Monday, 8:00 A.M.—Instruction begins.
April	20	Saturday—Mid-semester grades due.
June	17	Monday—Final examinations begin.
June	22	Saturday—Final examinations end.
June	23	Sunday—Recess begins.

THE WOMAN'S COLLEGE

1945

Sept.	13	Thursday, 8:00 A.M.—Dormitories open to Freshmen.
Sept.	13	Thursday, 8:00 P.M.—Assembly for all entering Freshmen; Freshman Orientation Program begins.
Sept.	18	Tuesday—Registration and matriculation of new students with advanced standing.
Sept.	20	Thursday, 8:30 A.M.—Instruction begins.
Sept.	20	Thursday, 12:15 P.M.—Assembly of all students.
Nov.	22	Thursday—Thanksgiving Day: a holiday.
Dec.	11	Tuesday—Duke University Day.
Dec.	19	Wednesday, 1:00 P.M.—Christmas recess begins.
Jan.	3	Thursday, 1:00 P.M.—Instruction is resumed.
Jan.	19	Saturday—Mid-year examinations begin.
Jan.	29	Tuesday—Mid-year examinations end.
Jan.	30	Wednesday—Last day for matriculation for second semester.
Jan.	31	Thursday—Second semester begins.
May	13	Monday—Final examinations for second semester begin.
May	23	Thursday—Final examinations end.
May	25	Saturday—Commencement Day.

DUKE UNIVERSITY

THE GRADUATE AND PROFESSIONAL SCHOOLS, AND THE SUMMER SESSION*

1945

May	28	Monday—Opening of the summer semester of the School of Law.
May	29	Tuesday—Certain Summer Session classes begin.
June	19	Tuesday—Registration for first term of Summer Session.
June	20	Wednesday—Instruction begins for first term of Summer Session.
July	2	Monday—Opening of summer quarter of School of Medicine.
July	4	Wednesday—Independence Day: a holiday.
July	30	Monday—First term of Summer Session ends. Registration for second term.
July	31	Tuesday—Second term of Summer Session begins.
Sept.	8	Saturday—Second term of Summer Session ends.
Sept.	20	Thursday, 12:15 P.M.—Formal opening the the University.
Sept.	20-22	Thursday, 9:15 A.M.-12:45 P.M., 2:30 P.M.-4:30 P.M.; Friday, 9:15 A.M.-12:45 P.M., 2:30 P.M.-4:30 P.M.; Saturday, 9:15 A.M.-12:45 P.M.—Registration of graduate students for first semester.
Sept.	21	Friday—First regular faculty meeting of the Divinity School.
Sept.	22	Saturday—End of summer quarter of School of Medicine.
Sept.	22	Saturday—Matriculation and registration of students of the Divinity School.
Sept.	24	Monday—Opening of fall semester of School of Law.
Sept.	24	Monday—Matriculation and registration of students of the Divinity School.
Sept.	24	Monday—Preliminary tests for first-year students of the Divinity School.
Sept.	24	Monday—Instruction for graduate students begins.
Sept.	25	Tuesday—Instruction for Divinity School students begins.
Sept.	25	Tuesday—Formal opening exercises of the Divinity School.
Oct.	1	Monday—Opening of autumn quarter of the Schools of Medicine and Nursing.
Oct.	15	Monday—Last day for submitting thesis subjects for the degree of Doctor of Philosophy.
Nov.	5-10	French examinations for candidates for graduate degrees. Candidates register in the Graduate Office for these examinations before October 25.
Nov.	12-17	German examinations for candidates for graduate degrees. Candidates register in the Graduate Office for these examinations before November 1.
Nov.	15	Thursday—Last day for submitting thesis subjects for the degrees of Master of Arts and Master of Education.
Nov.	22	Thursday—Thanksgiving Day: a holiday.
Dec.	11	Tuesday—Duke University Day.
Dec.	19	Wednesday, 1:00 P.M.—Christmas recess begins for Divinity and Graduate Schools.
Dec.	22	Saturday—End of autumn quarter of Schools of Medicine and Nursing.
Dec.	31	Monday—Opening of winter quarter of School of Nursing.

1946

Jan.	2	Wednesday—Opening of winter quarter of School of Medicine.
Jan.	3	Thursday, 1:00 P.M.—Instruction is resumed for Divinity and Graduate Schools.

* The School of Forestry has the same schedule as Trinity College and the College of Engineering.

Jan.	9-18	Reading period, Graduate School.
Jan.	17-18	Thursday, Friday, 9:15 A.M.-12:45 P.M.; 2:30 P.M.-4:30 P.M.—Registration of graduate students for second semester.
Jan.	19	Saturday—Mid-year examinations for Divinity and Graduate Schools begin.
Jan.	19	Saturday—Opening of spring semester of School of Law.
Jan.	31	Thursday—Second semester of Divinity and Graduate Schools begins.
March	1	Friday—Last day for applying for University fellowships, graduate assistantships, and graduate scholarships.
March	4-9	French examinations for candidates for graduate degrees. Candidates register in the Graduate Office for these examinations before February 27.
March	11-16	German examinations for candidates for graduate degrees. Candidates register in the Graduate Office for these examinations before March 5.
March	16	Saturday—End of winter quarter of School of Nursing.
March	23	Saturday—End of winter quarter of School of Medicine.
March	25	Monday—Opening of spring quarter of School of Nursing.
April	1	Monday—Opening of spring quarter of School of Medicine.
April	1	Monday—Students who expect to receive advanced degrees in May should notify the Graduate Office to that effect.
April	15	Monday—Last day for submitting theses for degree of Doctor of Philosophy.
April	16-17	Tuesday, Wednesday—English Bible examination, Divinity School.
April	22	Easter Monday: a holiday for the Schools of Medicine and Nursing.
April 22-May	4	Reading period. Instruction is resumed May 6, Monday, 8:30 A.M.
May	1	Wednesday—Last day for submitting theses for degrees of Master of Arts and Master of Education.
May	13	Monday—Final examinations begin for Divinity and Graduate Schools.
May	25	Saturday—Commencement Day.
May	27	Monday—Opening of the summer semester of the School of Law.
June	8	Saturday—End of spring quarter of School of Nursing.
June	22	Saturday—End of spring quarter of School of Medicine.

1945

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DUKE UNIVERSITY'S WARTIME PROGRAM

Before the United States entered the present world conflict, the Board of Trustees of the University in annual session adopted a resolution placing its facilities at the use of the government as needed in connection with the defense program. A committee was named, headed by the late Daniel C. Roper, former Secretary of Commerce in President Roosevelt's cabinet and a member of the Board, to convey this offer to the President and other officials of the government.

A little later, by using the Summer Session, the Faculty put into effect an accelerated program of studies making possible the graduation of students in three years. A compulsory three-years twelve-months program for students in the School of Medicine was made effective; graduation from the School of Law in two years and two summer sessions was made possible; spring holidays in all departments of the University were abolished, and examination and Commencement periods were shortened.

The Naval R.O.T.C., training students for commissions in the United States Navy, was opened at the beginning of the 1941-42 academic year, and later enlarged. In August, 1942, the Army Finance School, to train officers for the finance division of the Army, was located at Duke. In July, 1943, the Army Fiscal School, to operate as a part of the Army Finance School, was inaugurated. The Finance School, during the time it was in operation on the Duke Campus, from August, 1942, through July, 1944, trained more than 5,000 officers.

The Navy College Training Program was inaugurated at Duke on July 1, 1943. This embraced, in addition to the N.R.O.T.C., the following: V-12 Basic Program, V-12 Engineers Program, V-12 Pre-Medical Program, V-12 Special Training for Medical Students, H(V)P Medical Training Program. The V-12 Training Program for Marine Corps, and the V-12 Training Program for Coast Guard were discontinued in 1944.

The Army Training Program includes the following: Army Specialized Training Program in Medicine, and Clinical Laboratory Course for Army Medical Doctors.

For several years the Civil Pilot Training Program, including both elementary and secondary courses, trained Naval Air Corps cadets; special defense courses for undergraduates in technical drawing, mathematics of gunfire, electronics, cartography and other courses have been given. Short intensive ESMWT courses have been offered in co-operation with the United States Commissioner of Education; research in defense problems has been carried on at the University voluntarily and by contract with federal agencies; more than two hundred members of the faculty and administrative staff have been called to Washington and other points for essential work in connection with the war effort; the Woman's College has carried on a definite program of war activities.

HISTORY

Duke University owes its existence to a charitable trust set up by James B. Duke by an Indenture dated December 11, 1924, and known as the Duke Endowment; to gifts made by him to the University in the succeeding year; and to bequests that came through his will at his death, October 10, 1925. It is built around Trinity College which was brought to Durham and maintained there largely through the generosity of the Duke family.

Trinity College in its origins goes back to 1838. In that year the citizens of a rural community in the northwest section of Randolph County, North Carolina, established a school with Rev. Brantley York as principal. In 1839 this school was enlarged and named Union Institute. In 1841 it was incorporated by the following enactment of the Legislature of North Carolina:

*An Act to Incorporate Union Institute Academy:**

Be it enacted by the General Assembly of the State of North Carolina, and it is hereby enacted by the authority of the same, That Nathan Hunt, Joseph Mendenhall, Joseph Johnson, Lewis Leach, Jabez Leach, Martin W. Leach, and Ahi Robbins, and their successors, are hereby constituted a body corporate and politic to be known and distinguished by the name and style of the Trustees of the Union Institute Academy, and by that name shall have succession, and shall be able and capable in law to have, receive and possess lands and tenements, goods and chattels, acquired by gift or otherwise, and use and apply the same according to the will of the donor, or dispose of the same when not forbidden by the terms of the gift. They may sue and be sued, plead and be impleaded in any Court of Justice, and shall have power to fill vacancies in their body, which may occur by death, resignation, or otherwise, establish such laws and regulations for the government of said Institution as they may deem necessary, not inconsistent with the laws of this State, and do and perform all such acts and things as are incident to, and usually exercised for, bodies politic, for the accomplishments of the object contemplated.

Ratified the 12th day of January, 1841.

In the year 1842 Braxton Craven became principal of the school. The growth and development of the school caused the Trustees to plan to put it in direct relation to the educational needs of the public schools of the State. Application was made to the Legislature of North Carolina for a new charter, and on January 28, 1851, Union Institute Academy was incorporated as Normal College by the following enactment:

An Act to Incorporate Union Institute, in Randolph County, a Normal College:†

SECTION 1. Be it enacted by the General Assembly of the State of North Carolina, and it is hereby enacted by the authority of the same, That the present Trustees of Union Institute, to-wit: M. W. Leach, Ahi Robbins, Joseph Johnson, James Leach, and C. M. Hines; together with Rev. B. Craven, of said Institute; Hon. A. H. Sheppard, of Salem; John A. Gilmer, Esq., of Greensboro; Col. Samuel Hargrave, of Lexington; J. L. Blackmer, Esq., of Salisbury; Rev. S. A. Andrews, of Greensboro; Dr. S. G. Coffin, of Jamestown; H. B. Elliott, Esq., of Randolph; J. W. Thomas, Esq., of Davidson; John B. Troy, of Randolph; J. P. H. Russ, of Randolph; Eli Russell, of Montgomery, and Gen. J. M. Leach, of Lexington; and their successors be, and they are hereby declared, a body politic and corporate, to be known and distinguished by the name and style of the Normal College, and by that name shall have a perpetual succession, and a common seal, and be able and capable in law, of holding lands, tenements and chattels, sufficient for the uses and purposes of said College, and of suing and being sued, and of pleading and being impleaded.

SEC. 2. Be it further enacted, That said Trustees shall have the power to fix the time of holding the annual and other meetings, and to prescribe the manner in which vacancies in their body may be filled, five Trustees being a quorum to do business.

SEC. 3. Be it further enacted, That the said College shall be under the supervision, management and government of a President and such other persons as said Trustees may appoint; the said President, with the advice of the other persons so appointed, shall from

* Laws of North Carolina, 1840-1843.

† Laws of 1850-1851, chapter 20, page 56.

time to time make all needful rules and regulations for the internal government of said College, and fix the number and compensation of teachers to be employed therein, to prescribe the preliminary examinations and the terms and conditions on which pupils shall be received and instructed, and the number of pupils to be received from the respective counties.

SEC. 4. Be it further enacted, That said Trustees shall have power to make such rules, regulations and bylaws, not inconsistent with the Constitution of the United States and of this State as may be necessary for the good government of said College, and the management of the property and funds of the same.

SEC. 5. Be it further enacted, That when any pupil shall have sustained a satisfactory examination on the studies, or course of studies, prescribed by the Faculty and Trustees of said College, such person shall be deemed qualified to teach common schools and may receive a certificate, signed by the President and at least seven Trustees, which certificate shall be sufficient evidence of ability to teach in any of the common schools in this State, without any reexamination of the county committees; and where county certificates are now required before paying out the public funds, the certificate of the Normal College shall answer in lieu thereof.

SEC. 6. Be it further enacted, That the whole College course shall be divided into four classes or degrees, styled first, second, third and fourth, and students shall be ranked accordingly.

SEC. 7. Be it further enacted, That all pupils entering said College shall first sign a declaration, in a book to be kept by the President for that purpose as follows: "We, the subscribers, hereby declare that it is our intention to devote ourselves to the business of teaching common schools in the State of North Carolina, and that our sole object in resorting to this Normal College is the better to prepare ourselves for that important duty," which declaration it shall be the duty of the President to explain to the pupils before they sign the same.

Ratified 28th January, 1851.

On November 21, 1852, the Legislature ratified amendments to the charter of 1851 including changes and additions as follows:

*An Act to Amend an Act, Entitled "An Act to Incorporate Union Institute, in Randolph County, Normal College":**

SECTION 1. Be it enacted by the General Assembly of the State of North Carolina, and it is hereby enacted by the authority of the same, That J. C. Dohbin, John A. Gilmer, W. H. Washington, A. H. Sheppard, H. B. Elliott, J. M. Leach, Joseph Johnson, S. G. Coffin, A. S. Andrews, Joseph B. Cherry, N. W. Woodfin, B. Craven, James Leach, Calvin Graves, Ahi Rohhins, John B. Troy, Robert Strange, John W. Thomas, Samuel Hargrave, J. P. H. Russ, M. W. Leach, W. L. Steele, R. M. Saunders, W. B. Lane, G. W. Caldwell, C. H. Wiley, Jahez Leach, John A. Lillington, J. T. Morehead, Thales McDonald, R. C. Puryear, S. P. Hill, Alexander Gray, James M. Garrett, and Edward Ogburn and their successors be, and they are hereby declared, a body politic and corporate to be known and distinguished by the name and style of "The Trustees of Normal College," and hy that name and style shall have a perpetual succession and a common seal, and be able and capable in law of holding lands, tenements and chattels for the uses and purposes of said College; and of suing and being sued, and of pleading and being impleaded.

SEC. 2. Be it further enacted, That the Governor of the State shall be *ex-officio* President of the Board of Trustees, and that the common school superintendent, should such an officer exist, shall be *ex-officio* Secretary of the Board, and that all vacancies in the Board shall be filled by a majority of the Trustees of said College.

SEC. 3. Be it further enacted, That the Trustees shall have power of appointing an Executive Committee, to consist of seven members which committee shall control the internal regulations of said College, and fix all salaries and emoluments, and of doing all other things necessary for an institution of learning not inconsistent with the laws of this State and of the United States.

SEC. 4. . . . They shall have also the power to grant such degrees and marks of honor as are given by Colleges and Universities generally.

SEC. 5. Be it further enacted, That the Secretary of the Board of Trustees shall, within ten days after the meeting of each [Legislature] make a full report of the condition and operations of said Normal College, and the general character of Normal instruction; also, the condition and progress of Normal schools generally, together with all other information deemed important in the education of teachers, giving also the names and residences of all who have been authorized to teach.

SEC. 6. Be it further enacted, That the President and Directors of the literary fund are hereby directed to loan to the Trustees of Normal College, the sum of ten thousand dollars out of any moneys not otherwise appropriated, at six per cent interest, to be paid semiannually, upon said Trustees giving bond and good security for the same.

Under the amended charter authorizing the institution to confer degrees, two students were graduated on July 28, 1853, with the degree of Bachelor of Arts.

In the year 1853-1854 a larger building was erected by means of money lent by the State of North Carolina under the authority granted in the

* Laws of 1852-1853, chapter 88, page 161.

amended charter. In November, 1856, the Trustees of Normal College authorized President Craven to propose to the North Carolina Conference of the Methodist Episcopal Church, South, that the institution be placed under the ownership and control of that body. The Conference passed the following resolution:

1. That the Conference authorize and request the Board of Trustees of Normal College to raise by donations twenty thousand dollars.
2. That all lands and property belonging to the College be conveyed to the Board of Trustees in trust for the North Carolina Conference.
3. That the Conference fill all vacancies in the Board.
4. That the Conference appoint a visiting committee, which committee shall have equal power with the Board as to the internal regulations and operations of the College.

Within the following two years the Trustees arranged to meet all the conditions stipulated. The North Carolina Conference of the Methodist Episcopal Church, South, in consequence, became invested with the complete ownership and control of the College.

On February 16, 1859, the charter was amended and the name of the institution changed to Trinity College by the following enactment of the Legislature of North Carolina:

*An Act to Amend the Charter of Normal College:**

SECTION 1. Be it enacted by the General Assembly of the State of North Carolina, and it is hereby enacted by the authority of the same, That the corporation established by an act passed in 1852, and known by the style and title of the "Trustees of Normal College," be and the same is hereby changed to Trinity College; and said corporation shall henceforth, by the name and style of Trinity College, hold and use all the authority, privileges, possessions and liabilities it had under the former title and name.

SEC. 2. Be it further enacted, That the estate, real and personal, received and controlled by the Trustees of Trinity College, shall be for the uses and purposes of a literary institution for the North Carolina Conference of the Methodist Episcopal Church, South.

SEC. 3. Be it further enacted, That all vacancies in the Board of Trustees shall be filled by said North Carolina Conference: *Provided, however,* That no person shall be elected a Trustee till he has first been recommended by a majority of the Trustees present at a regular meeting; and the Trustees shall have power to remove any member of their body who may remove beyond the boundaries of the State, or who may refuse or neglect to discharge the duties of a Trustee.

SEC. 4. Be it further enacted, That the Faculty and Trustees shall have the power of conferring such degrees and marks of honor as are conferred by colleges and universities generally; and that five Trustees shall be a quorum to transact business.

SEC. 5. Be it further enacted, That no person shall keep, maintain, or have at Trinity College, or within two miles thereof, any tippling-house establishment, or place for the sale of wine, cordials, spirituous or malt liquors; nor shall any person in the State, without a written permission from the Faculty, sell, or offer to sell, give or deliver to any student of Trinity College, or to any other person, any wine, cordials, spirituous or malt liquors for the purpose of being used or with a knowledge that the same will be used at said College, or within two miles thereof, by any student.

SEC. 6. Be it further enacted, That no person shall set up, keep or maintain at Trinity College, (or) within two miles thereof, any public billiard table, or other table, of any kind at which games of chance or skill, by whatever name called, may be played; and that no person, without written permission from the Faculty, shall within the same limits exhibit any theatrical, sleight-of-hand, natural or artificial curiosities, or any concert, serenade, or performance in music, singing or dancing.

SEC. 7. Be it further enacted, That sections second, fourth and fifth of the charter passed in 1852, are hereby repealed, and that all acts and laws coming within the meaning and purview of this present act are hereby repealed.

During the Civil War the College shared the common fate of Southern colleges. President Craven resigned in 1863, and Professor William T. Ganaway was elected his successor. In October, 1865, Dr. Craven was re-elected to the presidency; however, the work of the College, which had been suspended in April of that year, was not resumed till January, 1866. Dr. Craven remained president of the College till his death, November 7, 1881. Professor William Howell Pegram was then elected chairman of the Faculty. He served till the close of the academic year, June, 1883.

The Reverend Marquis L. Wood was elected president in 1883; he resigned in December, 1884, when Professor John F. Heitman was elected chairman of the Faculty. John Franklin Crowell was chosen president of the College in April, 1887.

* Laws of 1858-1859, chapter 85, page 81.

President Crowell conceived the idea of enlarging the scope of college work and of removing Trinity College to a city. The Board of Trustees on May 7, 1889, passed the following resolutions:

Resolved (1). That after mature and prayerful consideration, we believe it best for the interest of Methodism in North Carolina, and the cause of God, to move Trinity College to some prominent center within this State: *Provided*, There shall be tendered to this Board a proper guarantee of a suitable site, with buildings on it, of at least equal value, and as well suited for the uses of the College as those on the present site.

Resolved (2). That a committee of five be appointed to carry out the true intent of the above resolution, and report to the next annual meeting of the Board of Trustees.

At a meeting of the Trustees held in Greensboro, North Carolina, November 30, 1889, the following resolutions were adopted:

Resolved (1). That the Board of Trustees of Trinity College accept the offer of the citizens of Raleigh to erect a college building on the site designated, said building to be according to the plans and specifications mentioned in their offer.

Resolved (2). That we recommend the N. C. Annual Conference of the M. E. Church, South, to authorize the removal of Trinity College in accordance with the above and former resolutions passed by this Board.

Resolved (3). That the grounds and buildings now owned and used at Trinity College be held by the same Board of Trustees to be used as an academical department to prepare students for the college classes.

In accordance with these resolutions, through President Crowell, the Conference was asked at its session in Greensboro, December, 1889, to grant permission to remove the College to the City of Raleigh. The Conference took the following action:

Resolved. That the Board of Trustees of Trinity College be and is hereby authorized and directed to move Trinity College to the City of Raleigh, when the citizens of said city shall have erected on the site designated and known as the Boylan lot, the building proposed and agreed to be built by them *Provided*, That before said college is moved, as aforesaid, there shall be made, executed and delivered to said Trustees a good and sufficient deed in fee simple with proper covenants of warranty and seizin, conveying the lot and site designated to said Trustees and their successors in office, for the use and benefit of the North Carolina Conference, Methodist Episcopal Church, South, as it now exists, and for the use and the benefit of such Conferences, as may be hereafter created by the Methodist Episcopal Church, South, out of any territory within the State of North Carolina.

Some time after this action of the Conference, Washington Duke and other citizens of Durham, North Carolina, made a proposition to the Trustees to locate the College in Durham, and this proposition was accepted. On January 21, 1891, the Legislature of North Carolina issued the following charter:

An Act to Amend the Charter of Trinity College:

The General Assembly of North Carolina do enact:

SECTION 1. That the Trustees of Trinity College are authorized and empowered to remove the operations and exercises of said College, and to locate the buildings deemed necessary by them for the purpose of the College, at or near the town of Durham, North Carolina. They may, if they so elect, establish and maintain in connection with said College institutions of primary and intermediate education at the present site of the College in Randolph County, and at such other points as they may now or hereafter determine, for the purpose of preparing students for admission to a collegiate course. The management of such auxiliary and subordinate high schools and academies shall be vested in the said Board of Trustees, who are authorized to make by-laws and regulations for them, as well as for the College proper.

SEC. 2. That the Trustees of Trinity College are authorized to receive and hold by gift, devise or purchase, property, real and personal, to be held for the use of said College and its dependent schools or for the use of either or both (as may be designated in the conveyance or will), (to a value not exceeding in the aggregate sum three millions of dollars).

SEC. 3. That the Trustees shall be thirty-six in number, of whom twelve shall be elected by the North Carolina Conference of M. E. Church, South, twelve by the W. N. C. Conference of said church, and twelve by graduates of said College. The term of office of Trustees shall be six years, and they shall be so arranged that four Trustees shall be elected by each Conference and four by the graduates every two years. The Trustees shall regulate by by-laws the manner of election of the Trustees to be chosen by the graduates. Should there exist a vacancy by death, resignation, or otherwise, of any Trustee, the same shall be filled for the unexpired term by the Board of Trustees. The terms of the Trustees now in office shall expire January first, one thousand eight hundred and ninety-two. At the first election held under this amendment to the Charter, the body of grad-

uates and each of the Conferences shall respectively elect four Trustees for the term of two years; in like manner each of said constituencies shall elect four Trustees for the term of four years, and in like manner each shall elect four Trustees for the term of six years.

In September, 1892, the College opened its first session in the new plant located at Durham. In May, 1894, President Crowell resigned, and on August 1, 1894, the Reverend John C. Kilgo was elected his successor. In May, 1897, the Trustees authorized the admission of women as students to all departments of the College.

On account of the fact that the fundamental laws under which the College was managed were contained in an original charter and in several amendments, it was deemed best by the Board of Trustees, in June, 1902, to appoint a committee to make an application to the Legislature for a new charter, which should unify and harmonize the provisions of the existing legislation. On February 28, 1903, the Legislature of North Carolina granted the new charter which is identical with the charter as found on pages 16-17, except that the corporate name of the institution is changed to Duke University and the corporation is given perpetual existence, an amendment enacted by the General Assembly of North Carolina, January 19, 1911, having already stricken out the limitations set in former charters to the amount of property the College might hold.

Having been elected a bishop of the Methodist Episcopal Church, South, President Kilgo resigned in June, 1910. William Preston Few was elected to succeed him and was formally inaugurated November 9, 1910.

On December 29, 1924, the Board of Trustees of Trinity College met to consider the Indenture of Trust executed by James B. Duke, December 11, 1924. The Board voted unanimously to accept the provisions of the Indenture insofar as it affected Duke University, and authorized the necessary steps to be taken whereby, on December 30, 1924, a charter for the University was granted. The charter follows closely that of Trinity College and is printed on pages 16-17.

President Few died October 16, 1940. Dr. R. L. Flowers was elected President January 29, 1941.

Duke University is approved by the recognized accrediting agencies in the field of university education and is a member of various associations devoted to the interests of such education. Among those in which it holds membership are the Association of American Universities, the Southern Association of Colleges and Secondary Schools, the American Association of Colleges, the Southern University Conference, the American Association of Law Schools, the Association of American Medical Colleges, the American Association of Theological Schools, and others.

GOVERNMENT

1. THE INDENTURE OF TRUST BY WHICH THE UNIVERSITY WAS CREATED

Among the provisions of James B. Duke's indenture of trust was an educational institution to be known as Duke University, in respect to which the Indenture contains the following provisions, and these provisions apply also to gifts made by him the year before he died and to bequests that came to the University at his death or that have come since:

I. (In Article FOURTH) The Trustees hereunder are hereby authorized and directed to expend as soon as reasonably may be not exceeding Six Million Dollars of the corpus of this trust in establishing at a location to be selected by them within the State of North Carolina an institution of learning to be known as Duke University, for such purpose to acquire such lands and erect and equip thereon such buildings according to such plans as the Trustees may in their judgment deem necessary and adopt and approve for the purpose, to cause to be formed under the laws of such state as the Trustees may select for the purpose a corporation adequately empowered to own and operate such properties under the name of Duke University as an institution of learning according to the true intent hereof, and to convey to such corporation when formed the said lands, buildings and equipment upon such terms and conditions as that such corporation may use the same only for such purposes of such university and upon the same ceasing to be so used then the same shall forthwith revert and belong to the Trustees of this trust as and become a part of the corpus of this trust for all the purposes thereof.

However, should the name of Trinity College, located at Durham, North Carolina, a body politic and incorporate, within three months from the date hereof (or such further time as the Trustees hereof may allow) be changed to Duke University, then, in lieu of the foregoing provisions of this division "FOURTH" of this Indenture, as a memorial to his father, Washington Duke, who spent his life in Durham and whose gifts, together with those of Benjamin N. Duke, the brother of the party of the first part, and of other members of the Duke family, have so largely contributed toward making possible Trinity College at that place, he directs that the Trustees shall expend of the corpus of this trust as soon as reasonably may be a sum not exceeding Six Million Dollars in expanding and extending said University, acquiring and improving such lands, and erecting, removing, remodeling and equipping such buildings, according to such plans, as the Trustees may adopt and approve for such purpose to the end that said Duke University may eventually include Trinity College as its undergraduate department for men, a School of Religious Training, a School for Training Teachers, a School of Chemistry, a Law School, Co-ordinate College for Women, a School of Business Administration, a Graduate School of Arts and Sciences, a Medical School and an Engineering School, as and when funds are available.

II. (In Article FIFTH) Thirty-two per cent of said net amount not retained as aforesaid for addition to the corpus of this trust shall be paid to that Duke University for which expenditures of the corpus of the trust shall have been made by the Trustees under the "Fourth" division of this Indenture so long as its name shall be Duke University and it shall not be operated for private gain, to be utilized by its Board of Trustees in defraying its administration and operating expenses, increasing and improving its facilities and equipment, the erection and enlargement of buildings and the acquisition of

additional acreage for it, adding to its endowment or in such other manner for it as the Board of Trustees of said institution may from time to time deem to be of its best interests, provided that in case such institution shall incur any expense or liability beyond provision already in sight to meet same, or in the judgment of the Trustees under this Indenture be not operated in a manner calculated to achieve the results intended hereby the Trustees under this Indenture may withhold the whole or any part of such percentage from said institution so long as such character of expense or liabilities or operation shall continue, such amounts so withheld to be in whole or in part either accumulated and applied to the purposes of such University in any future year or years, or utilized for the other objects of this Indenture, or added to the corpus of this trust for the purpose of increasing the principal of the trust estate, as the Trustees may determine.

III. (In Article SEVENTH) I have selected Duke University as one of the principal objects of this trust because I recognize that education, when conducted along sane and practical, as opposed to dogmatic and theoretical lines, is next to religion, the greatest civilizing influence. I request that this institution secure for its officers, trustees, and faculty, men of such outstanding character, ability, and vision as will insure its attaining and maintaining a place of real leadership in the educational world, and that great care and discrimination be exercised in admitting as students only those whose previous record shows a character, determination, and application evincing a wholesome and real ambition for life. And I advise that the courses at this institution be arranged, first, with special reference to the training of preachers, teachers, lawyers and physicians, because these are most in the public eye, and by precept and example can do most to uplift mankind, and second, to instruction in chemistry, economics, and history, especially the lives of the great of earth, because I believe that such subjects will most help to develop our resources, increase our wisdom and promote human happiness.

IV. (In Article THIRD) As respects any year or years and any purpose or purposes for which this trust is created (except the payments hereinafter directed to be made to Duke University) the Trustees in their uncontrolled discretion may withhold the whole or any part of said incomes, revenues and profits which would otherwise be distributed under the "Fifth" division hereof, and either (1) accumulate the whole or any part of the amount so withheld for expenditures (which the Trustees are hereby authorized to make thereof) for the same purpose in any future year or years, or (2) add the whole or any part of the amounts so withheld to the corpus of the trust, or (3) pay, apply and distribute the whole or any part of said amounts to and for the benefit of any one or more of the other purposes of this trust, or (4) pay, apply and distribute the whole or any part of said amounts to or for the benefit of any such like charitable, religious or educational purpose within the State of North Carolina or the State of South Carolina, or any such like charitable hospital purpose which shall be selected therefor by the affirmative vote of three-fourths of the then Trustees at any meeting of the Trustees called for the purpose, complete authority and discretion in and for such selection and utilization being hereby given the Trustees in the premises.

2. THE CHARTER OF THE UNIVERSITY

SECTION 1. That A. P. Tyer, J. H. Southgate, B. N. Duke, G. A. Oglesby, V. Ballard, J. A. Long, J. F. Bruton, J. N. Cole, F. A. Bishop, J. G. Brown, C. W. Toms, J. W. Alspaugh, W. R. Odell, J. A. Gray, F. Stikeleather, Kope Elias, S. B. Turrentine, P. H. Hanes, T. F. Marr, G. W. Flowers, M. A. Smith, R. H. Parker, W. J. Montgomery, F. M. Simmons, O. W. Carr, R. A. Mayer, N. M. Journey, Dred Peacock, B. B. Nicholson, W. G. Bradshaw, E. T. White, T. N. Ivey, J. B. Hurley, R. L. Durham, W. C. Wilson, and their associates and successors shall be, and continue as they have been, a body politic and corporate under the name and style of DUKE UNIVERSITY, and under such name and style shall have perpetual existence and are

hereby invested with all the property and rights of property which now belong to the said corporation, and said corporation shall henceforth and perpetually, by the name and style of DUKE UNIVERSITY, hold and use all the authority, privileges, and possessions it had or exercised under any former title and name, and be subject to all recognized legal liabilities and obligations now outstanding against said corporation.

SEC. 2. That such corporation is authorized to receive and hold by gift, devise, purchase or otherwise, property, real and personal, to be held for the use of said University and its dependent schools or for the use of either or both (as may be designated in the conveyance or will).

SEC. 3. That the Trustees shall be thirty-six in number, of whom twelve shall be elected by the North Carolina Conference of the M. E. Church, South; twelve by the W. N. C. Conference of the said church; and twelve by the graduates of said University; *Provided, however*, That no person shall be elected a Trustee till he has first been recommended by a majority of the Trustees present at a regular meeting; and the Trustees shall have power to remove any member of their body who may remove beyond the boundary of the State or who may refuse or neglect to discharge the duties of a Trustee. The term of office of Trustees shall be six years, and they shall be so arranged that four Trustees shall be elected by each Conference and four by the graduates every two years. The Trustees shall regulate by bylaws the manner of election of the Trustees to be chosen by the graduates. Should there exist a vacancy by death, resignation, or otherwise of any Trustee, the same shall be filled for the unexpired term by the Board of Trustees. That the present Trustees shall continue and remain in office during the term for which they have been heretofore respectively elected.

SEC. 4. That the said corporation shall be under the supervision, management and government of a president and such other persons as said Trustees may appoint; the said president, with the advice of other persons so appointed, shall from time to time make all needful rules and regulations for the internal government of said University and prescribe the preliminary examinations and the terms and conditions on which pupils shall be received and instructed.

SEC. 5. That said Trustees shall have power to make such rules, regulations, bylaws not inconsistent with the Constitution of the United States and of this State, as may be necessary for the good government of said University and management of the property and funds of the same.

SEC. 6. That the Trustees shall have power to fix the time of holding their annual and other meetings, to elect a president and professors for said University, to appoint an executive committee to consist of seven members, which committee shall control the internal regulations of said University and fix all salaries and emoluments, and to do all other things necessary for an institution of learning not inconsistent with the laws of this State and of the United States.

SEC. 7. That the Faculty and Trustees shall have the power of conferring such degrees and marks of honor as are conferred by colleges and universities generally; and that five Trustees shall be a quorum to transact business.

SEC. 8. That all laws and parts of laws or of the charter heretofore granted which are in conflict with this act are hereby repealed.

SEC. 9. That this act shall be in force from and after its ratification and acceptance by the Board of Trustees.

3. THE BYLAWS OF THE UNIVERSITY

1. AIMS OF THE UNIVERSITY. The aims of Duke University are to assert a faith in the eternal union of knowledge and religion set forth in the teachings and character of Jesus Christ, the son of God; to advance learning in all lines of truth; to defend scholarship against all false notions and ideals; to develop a Christian love of freedom and truth; to promote a sincere spirit of tolerance; to discourage all partisan and sectarian strife; and to render the largest permanent service to the individual, the state, the nation, and the church. Unto these ends shall the affairs of this University always be administered.

2. **THE UNIVERSITY TRUSTEES.** The Alumni Trustees, nominated by the Board as provided for in the charter, are elected by the Alumni Association. The officers of the Board are chairman, vice-chairman, and recording secretary. The chairman calls to order and presides at all meetings of the Board, calls extraordinary meetings when, in his judgment, such meetings may be necessary, and represents the Trustees at public meetings of the University. He is ex-officio member of the Executive Committee. In the absence of the chairman the vice-chairman calls to order and presides over meetings of the Board, but does not perform any of the other duties of the chairman unless ordered to do so by the Board of the Executive Committee. The recording secretary records the minutes of all the meetings, does the correspondence, and is the custodian of the records and other documents that may belong to the Board.

3. **THE EXECUTIVE COMMITTEE.** The Executive Committee consists of seven members, three of them from the University Trustees, including the chairman ex-officio, three from the Endowment Trustees, and the President of the University ex-officio. It performs the duties set out for it in the charter—namely, controls the internal regulations of the University and fixes all salaries and emoluments. The Committee is furthermore authorized to appoint officers and teachers of the University subject to the approval of the University Trustees. The Committee is elected by the University Trustees, three of them on nomination of the Endowment Trustees, and the Committee elects its own officers. It meets once a month and oftener when necessary. The Committee through its chairman makes annually a report to the University Trustees.

4. **OFFICERS OF THE UNIVERSITY.** The officers of the University are a president, three vice-presidents, a treasurer, a dean of the University, and such other deans as may be needed, a recording dean or registrar, and a secretary who is also secretary of the faculty. Whenever it may seem wise, more than one of these offices may be held by one man.

President. The President of the University calls, and presides at, all the meetings of the Faculties, sees that the laws and regulations of the Executive Committee and the Trustees affecting the administration and work of the University are carried out, appoints all committees of the Faculties and has direction of the discipline and work of the University. He has the authority to veto any action of the Faculties, when, in his judgment, such action is not in harmony with the aims and laws of the University, or when he may deem such action as unwise. However, in every instance he shall submit to the Faculty in writing his reasons for setting aside their action, and the secretary of the Faculty shall record his reasons in the record book of the Faculty. The President makes an annual report to the Board of the work, conditions, and needs of the University, and of other matters that may be of concern to it or to the cause of higher education. He nominates all members of the Faculties, and represents them at all public meetings of the University. He is an ex-officio member of the Executive Committee; and acts as the medium of communication between the University Trustees and the Endowment Trustees.

Vice-Presidents. The three Vice-Presidents of the University have supervision of the work of the University in the divisions of (a) business, (b) education, and (c) student life. In the absence of the President, Vice-Presidents in the order of official seniority may perform such duties of the President as may demand immediate attention.

Treasurer. The Vice-President in the Business Division and Treasurer has the custody of all the property of the University, that is, he has the primary responsibility for all collections and disbursements, for all securities and financial records, and for the care of the entire physical plant. He is required to make monthly reports to the Executive Committee and annual reports to the Trustees concerning his accounts and the property in his charge. It shall be the duty of the Treasurer to nominate to the Executive Committee an assistant treasurer and other assistants in sufficient number to do well the duties of his office. All officers entrusted with property belonging to the University are required to keep records of the same and these records are

at all times subject to the inspection of the Treasurer. The treasurer and his assistants shall be required to give bond, joint or several, in an amount not less than \$50,000 for the faithful performance of their duties.

5. **FACULTIES.** The General Faculty of the University is composed of professors, associate professors, and assistant professors who have been elected to membership in the Faculty. Concerning questions that do not lie exclusively in the field of any one Faculty and questions of University educational policy this Faculty has the right to enact such regulations as it may deem necessary to carry on the instruction, advance the standard of work, and otherwise develop the scholarly aims of the University. The General Faculty recommends to the University Trustees such persons as it deems fit to receive academic degrees or other marks of academic distinction. This Faculty meets twice a year and at other times on the call of the President or Dean of the University, or on the written request of five members.

The professional schools have their own faculties, each with its dean and other appropriate officers elected by the Executive Committee with the approval of the University Trustees, and each is authorized to perform any educational functions that lie in its field.

The Faculty Council includes the Deans and Assistant Deans of Trinity College and the Woman's College, the Dean of the Graduate School, the Secretary of the General Faculty, the Chairman and Director of Undergraduate Studies in each department offering instruction in the undergraduate colleges of liberal arts and sciences, one additional member elected by each department that has five or more teachers giving instruction in arts and sciences, and such others as may be appointed to membership in the Council by the governing bodies of the University. The Council meets once a month and considers questions of curriculum in the field of arts and sciences and other educational details and policies that are outside the functions of any one faculty.

The Council on Undergraduate Teaching consists of the Deans and Assistant Deans of Trinity College, the Woman's College, the College of Engineering, some other officers and appointed members, and teachers of all ranks who are giving fifty per cent or more of their time to the instruction of undergraduates. Courses to which both Seniors and graduates are admitted are understood as intended primarily for graduate students. The business of this Council is to stimulate good teaching and to find ways and means to make college teaching as effective as possible. It has the right to take such action as may be necessary to promote these ends.

The Council on the Instruction of Freshmen is composed of the Dean of Undergraduate Instruction, the Dean of Freshmen, and the Supervisor of Freshmen Instruction from each department offering courses for Freshmen. It considers policies and matters of detail as affecting Freshman instruction and also provision for the general welfare of Freshmen. The Freshmen Council makes recommendations to the Faculty Council for action in matters of general policy. The Freshman Council has the power to call upon members of the Faculty for reports or other information pertaining to the instruction of Freshmen at such dates as it may determine.

The Council on Education for Women consists of the Dean of Women and of one representative from each department offering courses which are largely taken by women students. It shall consider matters of interest and policy relating to the instruction and general welfare of the women students of the University, and make recommendations to the President, or the Faculty Council. The members of the Council on Education for Women are appointed by the President of the University.

The Council on Engineering Instruction consists of the Dean of the College of Engineering, the Secretary of the College, the Dean of the University, the Chairmen of the several departments in engineering, one representative to be appointed by the President of the University from each of the Departments of Mathematics, Physics, Chemistry, Economics English. The Council deals with questions relating to instruction in engineering, the welfare of engineering

students, and the cause of engineering in general. The Executive Committee consists of the Dean and the Secretary of the College of Engineering, and the Chairmen of the Departments of Civil, Electrical, and Mechanical Engineering.

The Council on Graduate Instruction consists of members of the Faculty above and including the ranks of associate professor who give at least half of their time to graduate work under the direction of the Graduate School, and others who may be appointed by the Governing Bodies of the University. One member is appointed from each of the professional schools which give courses for graduate credit, and in some cases more than one. The Council has to do with whatever pertains to instruction and requirements for degrees in the Graduate School of Arts and Sciences.

The Executive Committee of the Council on Graduate Instruction consists of the Dean and six members appointed by the President upon the recommendation of the Dean. Blanks are distributed once a year to each member of the Council with the request that six names be entered on the blank as his suggestions for members of the Committee. It is understood that the Dean is to take these suggestions into account in his recommendations to the President. Insofar as possible the Humanities, Biological and Physical Sciences, Social Sciences, and other fields are to be represented on the Executive Committee. No more than four of the six committee members are to be reappointed for any ensuing year.

6. **ACADEMIC YEAR.** The academic year begins on the morning of the Wednesday following September 15. The annual Commencement comes in the week including the first Sunday in June. The Christmas recess begins at 1:00 P.M. December 20 (or December 19 if December 20 falls on Sunday), and ends at 8:00 A.M., January 3 (or January 4 if January 3 falls on Sunday). The spring recess begins at 1:00 P.M. of the Saturday in March nearest to March 25, and ends at 8:00 A.M., of Monday nine days later. Thanksgiving Day is a holiday.

7. **TENURE OF OFFICE.** Teachers of all ranks are subject to removal by the Executive Committee, with the approval of the University Trustees, for misconduct or neglect of duty. Teachers may be elected for terms of one, two, three, or four years; or teachers with the rank of professor may be elected without time-limit. Administrative officers are usually elected without time-limit, but the Executive Committee, with the approval of the University Trustees, may remove any officer of the University whenever, in their opinion, he is not properly performing the duties of his office.

8. The bylaws may be amended at any regular meeting of the University Trustees by the affirmative vote of two thirds of the full membership of the Board, provided that the proposed amendment is submitted through the Secretary of the Board to the members at least twenty days before the meeting.

SABBATICAL LEAVE

Sabbatical leave of absence for members of the General Faculty is granted under regulations adopted by the Executive Committee of the Trustees on March 28, 1923, revised in 1928, partly in abeyance in the year 1933-34 and the succeeding three years, and restored in the year 1937-38. The conditions on which sabbatical leave of absence is granted are set forth below.

1. Every member of the General Faculty (composed of professors, associate professors, and assistant professors) is eligible for sabbatical leave after six years in the service of the University. Such leave may be taken for a full year at half salary or a half year at full salary.

2. In order to obtain a sabbatical leave written request for such leave must be filed with the President of the University by December 1 of the academic year preceding the one in which the leave is to take effect.

3. If in exceptional cases it should develop that the granting of leave to an applicant during the year for which application is made would raise very serious difficulties detrimental to the best interests of the applicant's depart-

ment or school, or the interests of the institution as a whole; or because of questions concerning the applicant's period of service prior to the leave, the President shall appoint a committee which shall have power to decide the question of granting the sabbatical leave for the particular year under consideration. This committee shall consist of five members as follows: two members of the general faculty appointed yearly by the President, the Treasurer of the University, the Dean of the school or college of which the applicant is a member, the chairman of the applicant's department, or should no such chairman exist another member of the applicant's department.

4. If this committee should decide against the granting of a sabbatical leave for the year for which the applicant applied, the applicant would be eligible for sabbatical leave the following year or any year thereafter upon making application in due form as above.

5. After September 1, 1928, if a member of the faculty on becoming eligible for sabbatical leave does not for some special reason apply for such leave, he may count the additional years of service prior to his leave toward the six years of service necessary before he can apply for a subsequent leave. If in an exceptional case an applicant for personal reasons applies for a sabbatical leave to be effective in advance of his regular year and such leave is granted, he shall not be eligible for a subsequent leave until he has served six years plus the number of years by which this leave is advanced.

6. On recommendation of the committee after leave of absence has been granted it may be postponed for urgent reasons and under conditions to be determined by the committee.

7. All those cases which have occurred in the past or which may occur in the future in which leave of absence is granted under conditions where the absentee receives full pay for a half year or half pay or more for a full year's leave of absence shall be considered as regular sabbatical leave under these regulations.

8. These revised regulations became effective as of September 1, 1928, and sabbatical leaves under such regulations began with the academic year 1929-30. The regulations were partly in abeyance in 1933-34, 1934-35, 1935-36, and 1936-37. The restoration of the regulations begins with the academic year 1937-38. The four years, 1933-34, 1934-35, 1935-36, and 1936-37, may not count toward the six years of service necessary before application can be made for leave of absence. In all cases in which special arrangements have been made for the granting of sabbatical leave (as described in condition No. 7) during the period of partial abeyance of the plan, the next six years of service shall be counted as beginning with the academic year 1937-38. All other members of the General Faculty who apply for sabbatical leave may count the years of service they had to their credit at the beginning of the academic year 1933-34.

GOVERNING BODIES AND OFFICERS

EXECUTIVE COMMITTEE OF THE UNIVERSITY

(Consisting of three members from the University Trustees, three from the Endowment Trustees, and the President of the University.)

	Year of Election		
J. F. BRUTON, Chairman.....	1918.....	Wilson,	N. C.
G. G. ALLEN.....	1923.....	New York,	N. Y.
M. E. NEWSOM.....	1917.....	Durham,	N. C.
W. N. REYNOLDS.....	1933.....	Winston-Salem,	N. C.
J. H. SEARK.....	1929.....	Gastonia,	N. C.
*W. R. PERKINS.....	1937.....	New York,	N. Y.
R. L. FLOWERS.....	1923.....	Durham,	N. C.

UNIVERSITY TRUSTEES

Term Expires December 31, 1949

G. G. ALLEN.....	1923.....	New York,	N. Y.
†J. H. BARNHARDT.....	1918.....	Shelby,	N. C.
JAMES A. BELL, Vice-Chairman.....	1920.....	Charlotte,	N. C.
R. G. CHERRY.....	1934.....	Raleigh,	N. C.
R. L. FLOWERS.....	1927.....	Durham,	N. C.
J. P. FRIZZELLE.....	1937.....	Snow Hill,	N. C.
T. M. GRANT.....	1933.....	Rocky Mount,	N. C.
E. L. JONES.....	1945.....	Charlotte,	N. C.
J. R. SMITH.....	1934.....	Mount Airy,	N. C.

FROM THE ALUMNI

B. F. FEW.....	1941.....	New York,	N. Y.
C. F. LAMBETH.....	1915.....	Thomasville,	N. C.
H. B. PORTER.....	1941.....	Raleigh,	N. C.
C. K. PROCTOR.....	1935.....	Oxford,	N. C.

Term Expires December 31, 1951

E. S. BOWLING.....	1939.....	New York,	N. Y.
H. C. DOSS.....	1943.....	Detroit,	Mich.
G. M. IVEY.....	1943.....	Charlotte,	N. C.
B. C. NALLE.....	1941.....	Charlotte,	N. C.
M. E. NEWSOM.....	1917.....	Durham,	N. C.
W. W. PEELE.....	1921.....	Richmond,	Va.
*W. R. PERKINS.....	1924.....	New York,	N. Y.
B. S. WOMBLE.....	1915.....	Winston-Salem,	N. C.

FROM THE ALUMNI

N. E. EDGERTON.....	1941.....	Raleigh,	N. C.
A. R. KEARNS.....	1945.....	High Point,	N. C.
R. A. MAYER.....	1897.....	Charlotte,	N. C.
W. A. STANBURY.....	1933.....	Winston-Salem,	N. C.

* Died, June 15, 1945.

† Died, January 21, 1945.

Term Expires December 31, 1947

J. F. BRUTON, Chairman.....	1900.....	Wilson,	N. C.
J. B. CRAVEN.....	1941.....	Charlotte,	N. C.
D. S. ELIAS.....	1929.....	Asheville,	N. C.
P. H. HANES.....	1912.....	Winston-Salem,	N. C.
J. L. HORNE, JR.....	1934.....	Rocky Mount,	N. C.
B. E. JORDAN.....	1943.....	Saxapahaw,	N. C.
S. B. TURRENTINE.....	1893.....	Greensboro,	N. C.
E. W. WEBB.....	1933.....	New York,	N. Y.

FROM THE ALUMNI

S. S. ALDERMAN.....	1934.....	Washington,	D. C.
W. N. REYNOLDS.....	1927.....	Winston-Salem,	N. C.
J. H. SEPAK.....	1916.....	Gastonia,	N. C.
WILLIS SMITH.....	1929.....	Raleigh,	N. C.

ENDOWMENT TRUSTEES

G. G. ALLEN, Chairman.....	1924.....	New York,	N. Y.
*W. R. PERKINS, Vice-Chairman.....	1924.....	New York,	N. Y.
N. A. COCKE, Vice-Chairman.....	1924.....	Charlotte,	N. C.
A. H. SANDS, JR., Secretary.....	1924.....	New York,	N. Y.
E. C. MARSHALL, Assistant Secretary.....	1924.....	Charlotte,	N. C.
W. C. PARKER, Treasurer.....	1924.....	New York,	N. Y.
W. B. BELL.....	1924.....	New York,	N. Y.
C. I. BURKHOLDER.....	1924.....	Charlotte,	N. C.
MRS. DORIS DUKE CROMWELL.....	1933.....	New York,	N. Y.
MRS. J. B. DUKE.....	1924.....	New York,	N. Y.
R. L. FLOWERS.....	1926.....	Durham,	N. C.
B. E. GEER.....	1924.....	Greenville,	S. C.
W. S. RANKIN.....	1925.....	Charlotte,	N. C.
W. N. REYNOLDS.....	1931.....	Winston-Salem,	N. C.
W. S. O'B. ROBINSON, JR.....	1932.....	Charlotte,	N. C.

COMMITTEES OF THE UNIVERSITY TRUSTEES

Buildings and Grounds: J. R. SMITH, CHERRY, BARNHARDT.†

Business Administration of the University: HANES, ELIAS, BOWLING, DOSS.

Colleges: ALDERMAN, HORNE, IVEY.

Divinity School: PEELE, GRANT, PORTER, EDGERTON.

School of Forestry: NEWSOM, FEW, CHERRY, EDGERTON.

Graduate School: WEBB, TURRENTINE, FLOWERS, CRAVEN.

Law School: WILLIS SMITH, WOMBLE, CHERRY, FRIZZELLE.

Library: STANBURY, HANES, LAMBETH.

Medical School and Hospital: MAYER, PROCTOR, NALLE.

Physical Education and Intercollegiate Athletics: SEPAK, J. R. SMITH, PROCTOR, JORDAN.

* Died, June 15, 1945.

† Died, January 21, 1945.

OFFICERS OF ADMINISTRATION

GENERAL ADMINISTRATION

FLOWERS, ROBERT LEE, A.M., LL.D. <i>President of the University</i>	West Campus
WANNAMAKER, WILLIAM HANE, A.B., A.M., Litt.D. <i>Vice-President and Dean of the University</i>	West Campus
MARKHAM, CHARLES BLACKWELL, A.B., A.M. <i>Treasurer of the University</i>	204 Dillard Street
BROWER, ALFRED SMITH, A.B. <i>Administrative Assistant</i>	518 Morehead Avenue
JORDAN, CHARLES EDWARD, A.B., LL.D. <i>Secretary of the University</i>	813 Vickers Avenue

BUSINESS ADMINISTRATION

MARKHAM, CHARLES BLACKWELL, A.B., A.M. <i>Treasurer of the University</i>	204 Dillard Street
JORDAN, CHARLES EDWARD, A.B., LL.D. <i>Secretary of the University</i>	813 Vickers Avenue
HENRICKSEN, GERHARD CHESTER, A.B., A.M., C.P.A. <i>Assistant Treasurer</i>	216 Forest Wood Drive, Forest Hills
*WEATHERSPOON, EVERETT BROADUS, A.B. <i>Assistant Secretary</i>	125 Pinecrest Road

TYREE, WILLIAM ALLEN, A.B. <i>Director in the Business Division</i>	610 Buchanan Road
WHITFORD, WILLIAM EDWARD, A.B. <i>Director in the Business Division</i>	804 Third Street
†THOMPSON, JAMES EDWARD <i>Manager, the Duke University Dining Halls</i>	504 East Forest Hills Boulevard
DOXEY, JOHN ELWOOD, A.B., A.M. <i>Purchasing Agent, Duke University</i>	1004 Broad Street
‡SAWYER, OTIS, A.B. <i>Purchasing Agent, Duke University</i>	2010 Club Boulevard
‡MOORE, JOHN MEREDITH, A.B. <i>Manager, the Duke University Stores</i>	Prince Street

* On active duty, U. S. Army.

† Resigned, August 31, 1945.

‡ Resigned, June 30, 1945.

*UPCHURCH, WALTER MCGOWAN, JR., A.B., LL.B.
Financial Adviser, Student Activities

Johnson Apartments

BOY, CARL A.
Superintendent of Maintenance, West Campus

2214 Erwin Road

GIFT, JOHN C.
Superintendent of Maintenance, East Campus

811 Fifth Street

PUBLIC RELATIONS AND ALUMNI AFFAIRS

DUKES, CHARLES AUBREY, A.B.
Director of Public Relations and Alumni Affairs

1309 Oakland Avenue

GARRARD, ANNE, A.B., A.M.
Assistant Director, Alumni Affairs

1023 Gloria Avenue

†JACKSON, DAVID KELLY, A.B., A.M.
Assistant Editor, Duke University Press

626 Swift Avenue

BRICE, ASHBEL GREEN, A.B., A.M.
Assistant Editor, Duke University Press

814 Sixth Street

*MANN, GLENN EDWARD, A.B.
Manager, Athletics Division, the News Service

2227 Cranford Road

*UPCHURCH, WALTER MCGOWAN, JR., A.B., LL.B.
Director, Appointments Office

Johnson Apartments

WILKINSON, ALBERT ALEXANDER, A.B.
Director, the News Service

2809 Legion Avenue

EDUCATIONAL ADMINISTRATION

WANNAMAKER, WILLIAM HANE, A.B., A.M., Litt.D.
Dean of the University

West Campus

UNDERGRADUATE COLLEGES

HERRING, HERBERT JAMES, A.B., A.M.
Dean of Trinity College

Myrtle Drive, West Campus

BALDWIN, ALICE MARY, A.B., A.M., Ph.D.
Dean of the Woman's College

East Campus

HALL, WILLIAM HOLLAND, A.B., A.M., B.C.E., M.S.C.E.
Dean of the College of Engineering

922 Urban Avenue

MANCHESTER, ALAN KREBS, A.B., A.M., Ph.D.
Dean of Freshmen, Trinity College

* Myrtle Drive, West Campus

SMITH, MRS. RUTH SLACK, A.B., A.M.
Associate Dean of Undergraduate Instruction, Woman's College

Faculty Apartments, East Campus

PERSONS, MRS. ELIZABETH ANDERSON, A.B., A.M.
Dean of Freshmen, the Woman's College

612 Swift Avenue

Secretary of the Committee on Admissions of the Woman's College

* On active duty, U. S. Navy.

† Resigned, January 31, 1945.

*CLEAVELAND, FREDERIC NEILL, A.B., A.M.

Assistant Dean of Men

Duke University

WATSON, KARL BRANTLEY, A.B., B.S., A.M., Ph.D.

Director, Bureau of Testing and Guidance

1102 Virginia Avenue

GRADUATE AND PROFESSIONAL SCHOOLS

HOOVER, CALVIN BRYCE, A.B., Ph.D., Litt.D. 1702 Duke University Road

Dean of the Graduate School of Arts and Sciences

ROBERT, JOSEPH CLARKE, A.B., A.M., Ph.D.

Assistant Dean of the Graduate School

1102 B Street

†GARBER, PAUL NEFF, A.B., A.M., Ph.D.

Dean of the Divinity School

Myrtle Drive, West Campus

BRANSCOMB, BENNETT HARVIE, A.B., B.A., M.A., Ph.D., Litt.D.

Dean of the Divinity School

Hope Valley

RUSSELL, ELBERT, A.B., A.M., Ph.D., Litt.D.

Dean Emeritus of the Divinity School

804 Fourth Street

HORACK, HUGO CLAUDE, Ph.B., LL.B., LL.D.

Dean of the School of Law

Myrtle Drive, West Campus

DAVISON, WILBURT CORNELL, A.B., B.A., B.Sc., A.M., D.Sc., M.D.

Dean of the School of Medicine

Hope Valley

PINKERTON, MARGARET ISABEL, R.N., B.S.

Dean of the School of Nursing

412 Swift Avenue

KORSTIAN, CLARENCE FERDINAND, B.S.F., M.F., M.A., Ph.D.

Dean of the School of Forestry

1718 Duke University Road

HOLTON, HOLLAND, A.B., J.D.

Director of the Summer Session

809 Watts Street

COLEMAN, MARGARET, A.B., A.M.

Recorder, Trinity College

918 Urban Avenue

KENDALL, HELEN MILDRED, A.B.

Registrar, School of Law

8 Aycock Apartments

‡SEABOLT, LOUISE, A.B., A.M.

Recorder, Woman's College

Faculty Apartments

INSTRUCTIONAL STAFF

This alphabetical list includes all members of the various faculties of the University. The date denotes the first year of service.

ACOMB, FRANCES DOROTHY, (1945) A.B., A.M., Ph.D.

Visiting Assistant Professor of History

Duke University

**ADAMS, DONALD KEITH, (1931) A.B., M.A., Ph.D.

Associate Professor of Psychology

Cornwallis Road

ADDOMS, RUTH MARGERY, (1930) B.A., M.A., Ph.D.

Associate Professor of Botany

1003 Lamond Avenue

ADLER, ALEXANDRA, (1944) M.D.

Visiting Assistant Professor of Neuropsychiatry

704 Shepherd Street

*ALEXANDER, LEO, (1941) A.B., M.D.

Associate Professor of Neuropsychiatry

2122 Myrtle Drive

• On active duty, U. S. Army.

† Resigned, July 20, 1944.

‡ Resigned, August 31, 1945.

** Absent on leave, Government Service, 1944-1945.

- ALLEN, CLARK LEE, (1941-43; 1945) A.B., A.M., Ph.D.
Assistant Professor of Economics Duke University
- ALTER, ROBERT LEONHARDT, (1939) M.D.
Instructor in Obstetrics and Gynecology 2610 Duke Homestead Road
- ALYEA, EDWIN PASCAL, (1930) S.B., M.D.
Clinical Professor of Urology Hope Valley
- *ANDERSON, LEWIS EDWARD, (1936) B.S., A.M., Ph.D.
Assistant Professor of Botany 305 Frances Street
- ANDERSON, WILLIAM BANKS, (1930) A.B., M.D. 503 E. Forest Hills Blvd.
Associate Professor of Surgery in charge of Ophthalmology
- ARENA, JAY MORRIS, (1933) B.S., M.D.
Assistant Professor of Pediatrics 2032 Club Boulevard
- ATWOOD, THEODORE W., (1934) A.B., D.M.D.
Associate in Dentistry Allenton Apartments
- †AVERILL, LOUISE, (1943) B.A., M.A.
Instructor in Art 1507 W. Pettigrew Street
- AYCOCK, THOMAS MALCOLM, (1937) B.S., M.S.
Assistant Professor of Physical Education University Apartments
- BADENOCH, ERNEST L., (1943) B.S., M.A.
Instructor in Speech 2011 Wa Wa Avenue
- BAKER, LENOX DIAL, (1937) M.D.
Associate Professor of Surgery in charge of Orthopaedics Hope Valley
- BAUM, PAULL FRANKLIN, (1922) A.B., A.M., Ph.D.
Professor of English 112 Pinecrest Road
- BAYLIN, GEORGE JAY, (1939) A.B., M.D. 2260 Cranford Road
Assistant Professor of Radiology and Instructor in Anatomy
- †BEAL, JAMES ALLEN, (1939) B.S., M.S., Ph.D. 2232 Cranford Road
Professor of Forest Entomology
- BEARD, JOSEPH W., (1937) B.S., M.D. Hillsboro, N. C.
Associate Professor of Surgery in charge of Experimental Surgery
- BECK, LEWIS WHITE, (1945) A.B., A.M., Ph.D.
Visiting Assistant Professor of Philosophy Duke University
- BERNHEIM, FREDERICK, (1930) A.B., Ph.D. Woodridge Drive, Rockwood
Associate Professor of Physiology and Pharmacology
- BERNHEIM, MARY LILIAS CHRISTIAN, MRS., (1930) B.A., M.A., Ph.D. Woodridge Drive, Rockwood
Assistant Professor of Biochemistry
- BERRY, EDWARD WILLARD, (1936) A.B., Ph.D. 1003 N. Gregson Street
Associate Professor of Geology
- BERRY, LUCIA KENDALL, MRS., (1944) B.S. 805 Watts Street
Instructor in Physical Education

* On active duty, U. S. Navy.

† Resigned, August 31, 1945.

‡ Absent on sabbatical leave, 1945-1946.

- *BERRY, THOMAS SENIOR, (1935) S.B., M.A., Ph.D.
Instructor in Economics 100 Vineyard Street
- BEVINGTON, MERLE MOWBRAY, (1942) A.B., M.A., Ph.D.
Assistant Professor of English 2608 Nation Avenue
- BIGELOW, LUCIUS AURELIUS, (1929) S.B., Ph.D.
Professor of Chemistry 131 Pinecrest Road
- BILLIG, OTTO, (1941) M.D.
Associate in Neuropsychiatry Duke Hospital
- BIRD, HAROLD CRUSIUS, (1926) Ph.B., C.E.
Professor of Civil Engineering 1209 Virginia Avenue
- BLACK, MARTIN LEE, JR., (1930) A.B., M.B.A., C.P.A.
Professor of Accounting 135 Pinecrest Road
- BLACKBURN, WILLIAM MAXWELL, (1926) A.B., B.A., M.A., Ph.D.
Associate Professor of English 715 Anderson Street
- BLEVINS, DANIEL OSCAR, (1944) B.S., Lieutenant, U. S. Navy
Assistant Professor of Naval Science and Tactics 2501 Banner Street
- BLOMQUIST, HUGO LEANDER, (1920) B.S., Ph.D.
Professor of Botany 922 Demerius Street
- BOLICH, WILLIAM BRYAN, (1927) A.B., B.A. (Juris.), M.A., B.C.L.
Professor of Law Hope Valley
- BONE, ALLAN HADLEY, (1944) B.A., M.M.
*Visiting Assistant Professor of Aesthetics, Art,
and Music* 308 Greenwood Drive
- †BONNER, LYMAN GAYLORD, (1937) A.B., Ph.D.
Assistant Professor of Physics 2708 Nation Avenue
- BOOKHOUT, CAZLYN GREEN, (1935) A.B., A.M., Ph.D.
Assistant Professor of Zoology 1307 Alabama Avenue
- BOOKOUT, ELIZABETH CIRCLE, MRS., (1932-43; 1945) A.B., M.S.
Instructor in Physical Education 1307 Alabama Avenue
- BRADSHAW, CHARLES KILGO, (1939) A.B., M.A., Ph.D.
Assistant Professor of Chemistry 2302 Elder Street
- BRADWAY, JOHN SAEGER, (1931) A.B., A.M., LL.B.
Professor of Law 2621 Stuart Drive
- BRANSCOMB, BENNETT HARVIE, (1925) A.B., B.A., M.A., Ph.D., Litt.D.
*Professor of New Testament Language and Literature
and Dean of the Divinity School* Chelsea Circle, Hope Valley
- †BREWSTER, LAWRENCE FAY, (1942) A.B., A.M., Ph.D.
Instructor in History 910 Monmouth Avenue
- **BRICE, ASHBEL GREEN, (1939) A.B., A.M.
Instructor in English 814 Sixth Street
- BRIDGERS, FURMAN ANDERSON, (1926) A.B., A.M.
Assistant Professor of Romance Languages 1325 Arnette Avenue
- ***BROADHEAD, EDWARD HALL, (1933) A.B., A.M., M.M.
Instructor in Music 1015 Dacian Avenue

* Absent on leave, Government Service, 1944-1945.

† Absent on leave, Government Service, second semester, 1944-1945.

‡ Resigned, August 31, 1945.

** Resigned, February 28, 1945.

*** Resigned, November 1, 1944.

- BROWN, FRANCES, (1931) A.B., Ph.D.
Assistant Professor of Chemistry 205 Jones Street
- BROWNELL, WILLIAM ARTHUR, (1930) A.B., A.M., Ph.D., LL.D.
Professor of Educational Psychology Hope Valley
- *BRUINSMA, HENRY A., (1938) B.M., M.M.
Assistant Professor of Music Duke University
- BRYSON, THADDEUS DILLIARD, (1928) LL.D.
Professor of Law Hope Valley
- CALLAWAY, JASPER LAMAR, (1937) B.S., M.D.
Associate Professor of Medicine in charge of Dermatology and Syphilology 828 Anderson Street
- CAMERON, EDMUND MCCULLOUGH, (1926) A.B.
Head Coach of Football Hope Valley
- CANNON, JAMES, III, (1919) A.B., A.M., Th.B., Th.M., D.D.
Ivey Professor of History of Religion and Missions 803 Second Street
- CARLITZ, LEONARD, (1932) A.B., A.M., Ph.D.
Professor of Mathematics 2303 Cranford Road
- CARPENTER, DAVID WILLIAMS, (1929) A.B., A.M., Ph.D.
Associate Professor of Physics 137 Pinecrest Road
- CARR, JOHN WINDER, JR., (1926) A.B., A.M., Ph.D.
Professor of Education 926 Monmouth Avenue
- CARROLL, EBER MALCOLM, (1923) A.B., A.M., Ph.D.
Professor of History University Apartments
- CARROLL, R. CHARMAN, (1943) A.B., M.D.
Associate in Psychiatry Faculty Apartments
- CARROLL, ROBERT SPROUL, (1941) M.D.
Lecturer in Neuropsychiatry Asheville, N. C.
- CARSON, MERL JOHN, (1944) B.A., M.D.
Instructor in Pediatrics Duke Hospital
- CARTER, BAYARD, (1931) A.B., B.A., M.A., M.D.
Professor of Obstetrics and Gynecology Myrtle Drive, West Campus
- CATTELL, RAYMOND BERNARD, (1944) B.S., Ph.D.
Visiting Associate Professor of Psychology, March 1, 1944, to February 28, 1945 Hope Valley Road
- †CAVERS, DAVID FARQUHAR, (1931) B.S., LL.B.
Professor of Law Sylvan Road
- CHILDS, BENJAMIN GUY, (1924) B.A., M.A.
Professor of Education 1019 West Markham Avenue
- CLARK, ELON HENRY, (1934)
Assistant Professor of Medical Art and Illustration 2802 Legion Avenue
- CLARK, KENNETH WILLIS, (1931) A.B., B.D., Ph.D. 1308 Markham Avenue
Professor of New Testament Language and Literature
- CLELAND, JAMES F., (1945) M.A., B.D., Th.M.
Professor of Homiletics Duke University
- ‡CLYDE, PAUL HIBBERT, (1937) A.B., A.M., Ph.D.
Professor of History Faculty Apartments

* On active duty, U. S. Army.

† Absent on leave, Government Service.

‡ Absent on leave, Government Service, 1945-1946.

- *COILE, THEODORE STANLEY, (1935) B.S.F., M.F., Ph.D.
Associate Professor of Forest Soils Duke University
- COLE, ROBERT TAYLOR, (1935) A.B., A.M., Ph.D.
Professor of Political Science Sylvan Road
- CONANT, NORMAN FRANCIS, (1935) B.S., A.M., Ph.D.
Associate Professor of Bacteriology and Mycology Tuscaloosa Forest
- CONSTANT, FRANK WOODBRIDGE, (1930) B.S., Ph.D.
Associate Professor of Physics 2701 Legion Avenue
- COOKE, THOMAS CHEATHAM, (1943)
Visiting Instructor in Mechanical Engineering 2209 Wilson Street
- COOPER, ALBERT DERWIN, (1934) A.B., M.D.
Instructor in Medicine 1006 Dacian Avenue
- COOPER, GERALD RICE, (1942) A.B., A.M., Ph.D.
Research Associate in Experimental Surgery 2105 Chapel Hill Road
- COWPER, FREDERICK AUGUSTUS GRANT, (1918) A.B., A.M., Ph.D.
Professor of Romance Languages 1017 Dacian Avenue
- CRAIG, HOYLE WILLIAM, (1930)
Technical Instructor in Bacteriology 1207 Alabama Avenue
- †CRAIG, ROBERT LAWRENCE, (1939) B.A., M.D.
Instructor in Neurology 919 Monmouth Avenue
- Craven, ERLE BULLA, JR., (1937) A.B., M.D.
Associate in Medicine Winston-Salem, N. C.
- Craven, JEAN DAVIDSON, (1944) A.B., M.D.
Associate in Pediatrics Duke Hospital
- ‡CRISPELL, RAYMOND S., (1933) A.B., M.D.
Associate Professor of Neuropsychiatry Duke University
- CRUM, MASON, (1930) A.B., Ph.D.
Assistant Professor of Biblical Literature 912 Anderson Street
- CURTISS, JOHN SHELTON, (1945) A.B., A.M., Ph.D.
Visiting Associate Professor of History Duke University
- CUSHMAN, ROBERT E., (1945) A.B., B.D., Ph.D.
Associate Professor of Systematic Theology Duke University
- CUYLER, W. KENNETH, (1938) B.A., M.A., Ph.D.
Research Instructor in Obstetrics and Gynecologic Laboratory Technics Pickett Road
- DAI, BINGHAM, (1943) A.B., M.A., Ph.D.
Lecturer in Psychiatry Monmouth Avenue
- DANN, WILLIAM JOHN, (1934) B.S., Ph.D.
Associate Professor of Physiology and Nutrition 113 Pinecrest Road
- DARBY, WILLIAM J., (1943) M.D., M.S., Ph.D.
Instructor in Preventive Medicine and Public Health Chapel Hill, N. C.
- DAVIDSON, JOHN ALEXANDER, (1944) A.B., M.D.
Instructor in Urology Duke Hospital
- DAVIS, CLARENCE DANIEL, (1943) S.B., M.D.
Instructor in Endocrinology 2302 Erwin Road

* On active duty, U. S. Marine Corps.

† On active duty, U. S. Army.

‡ On active duty, U. S. Navy.

- DAVIS, GIFFORD, (1930) A.B., A.M., Ph.D.
Assistant Professor of Romance Languages 2015 Wa Wa Avenue
- DAVISON, WILBURT CORNELL, (1927) A.B., B.A., B.Sc., M.A., D.Sc., M.D., LL.D.
Professor of Pediatrics and Dean of the School of Medicine Hope Valley
- DAWSON, PERCY MILLARD, (1943), A.B., M.D.
Visiting Professor of Physiology 2313 Club Blvd.
- DEES, JOHN ESSARY, (1939) B.S., M.D.
Assistant Professor of Urology 413 Carolina Circle
- DEES, SUSAN COONS, (1939) A.B., M.S., M.D.
Associate in Pediatrics 413 Carolina Circle
- DE GUERRA, ISABEL M., MRS., (1945) Ph.D.
Visiting Instructor in Romance Languages Duke University
- DEJONG, HERMAN, (1943) A.B., M.D.
Associate Professor of Neuropsychiatry University Apartments
- *DELAFLANE, WALTER HAROLD, (1934) A.B., A.M., Ph.D.
Assistant Professor of Economics Duke University
- DE VYVER, FRANK TRAVER, (1935) A.B., A.M., Ph.D.
Professor of Economics 8 Sylvan Road
- DICK, MACDONALD, (1932) B.A., M.A., M.D.
*Assistant Professor of Physiology and Pharmacology
 and Associate in Medicine* Hope Valley Road
- DILLINGHAM, MARJORIE CARTER, MRS., (1941) A.B., M.A.
Instructor in Spanish Mordecai House, East Campus
- DOW, MARIE, MME., (1934) L. ès L., M.A.
Instructor (Part-time) in French 1411 Arcadia Street
- DOW, NEAL, (1934) A.B., M.A., Ph.D.
Assistant Professor of Romance Languages 1411 Arcadia Street
- DRESSEL, FRANCIS GEORGE, (1929) B.S., M.S., Ph.D.
Associate Professor of Mathematics 309 Frances Street
- DUBIN, ISADORE NATHAN, (1942) B.Sc., M.D., C.M.
Associate in Pathology 1411 Sixth Street
- DUKE, KENNETH LINDSAY, (1940) A.B., Ph.D.
Associate in Anatomy 701 Club Boulevard
- EADIE, GEORGE SHARP, (1930) M.A., M.B., Ph.D.
Professor of Physiology and Pharmacology Hope Valley
- EAGLE, WATT WEEMS, (1930) A.B., M.D.
Associate Professor of Surgery in charge of Otolaryngology 804 Anderson Street
- EASLEY, ELEANOR BEAMER, (1934) B.A., M.A., M.D.
Associate in Obstetrics and Gynecology 2614 Stuart Drive
- †EASLEY, HOWARD, (1930) A.B., M.A., Ph.D.
Assistant Professor of Education 2614 Stuart Drive
- ‡EITEMAN, WILFORD J., (1937) A.B., A.M., Ph.D.
Associate Professor of Economics 126 Pinecrest Road
- ELLIOTT, WILLIAM WHITFIELD, (1925) B.A., M.A., Ph.D.
Professor of Mathematics 707 Morehead Avenue
- ELLWOOD, CHARLES ABRAM, (1930) Ph.B., Ph.D., LL.D.
Professor of Sociology, Emeritus Pinecrest Road

* Absent on leave, Government Service, 1944-1945.

† On active duty, U. S. Navy.

‡ Absent on leave, Government Service, 1945-1946.

- EPPERSON, JESSE HARRISON, (1930) B.S.
Instructor in Preventive Medicine and Public Health 1601 Hermitage Court
- *ERICKSON, CYRUS CONRAD, (1937) B.S., B.M., M.D.
Associate in Pathology University Apartments
- EVERETT, JOHN WENDELL, (1932) A.B., Ph.D.
Assistant Professor of Anatomy 2605 University Drive
- *FERGUSON, ARTHUR BOWLES, (1939) A.B., Ph.D.
Instructor in History Duke University
- FERGUSON, GEORGE BURTON, (1937) M.Sc. (Med.), M.D.
Associate in Bronchoscopy Beverly Apartments
- FITZGERALD, WILLIAM STONE, (1935) A.B., A.M.
Instructor in English 3 Powe Apartments, 603 Watts Street
- FLEMING, WILLIAM LE ROY, (1939) B.A., M.S., M.D.
Lecturer in Preventive Medicine and Public Health Duke Hospital
- FORBUS, WILEY DAVIS, (1930) A.B., M.D.
Professor of Pathology Hope Valley
- FORSNAG, WAYNE C., (1945) Lieutenant (jg), U. S. Navy
Instructor in Naval Science and Tactics Duke University
- †FOX, HERBERT JUNIUS, (1940) M.D.
Instructor in Medicine Indian Trail
- ‡GARBER, PAUL NEFF, (1924) A.B., A.M., Ph.D. Myrtle Drive, West Campus
Professor of Church History and Dean of the Divinity School
- *GARDNER, CLARENCE ELLSWORTH, JR., (1930) A.B., M.D.
Associate Professor of Surgery Hope Valley
- *GARRARD, ROBERT L., (1941) A.B., M.S., B.S., M.D.
Instructor in Neuropsychiatry 1000 Hale Street
- GERGEN, JOHN JAY, (1936) A.B., A.M., Ph.D.
Professor of Mathematics 2803 Nation Avenue
- GIBSON, WILLIAM MARION, (1934) A.B., A.M., Ph.D.
Associate Professor of Political Science Duke University
- GILBERT, ALLAN, (1920) B.A., A.M., Ph.D.
Professor of English 516 Carolina Circle
- GILBERT, KATHARINE EVERETT, (1930) A.B., A.M., Ph.D., Litt.D.
Professor of Philosophy; Chairman, Department of Aesthetics, Art and Music 516 Carolina Circle
- GILLIN, JOHN, (1941) A.B., A.M., Ph.D.
Associate Professor of Anthropology 718 Vickers Avenue
- GLASSON, WILLIAM HENRY, (1902) Ph.B., Ph.D., LL.D. 710 Buchanan Road
Professor of Political Economy and Social Science, Emeritus
- GOHDES, CLARENCE, (1930) A.B., A.M., Ph.D.
Professor of English 2614 Stuart Drive
- **GOLDIN, JUDAH, (1943) B.S., A.M., D.H.L.
Lecturer on Jewish Literature and History 1614 Delaware Avenue

* On active duty, U. S. Army.

† On active duty, U. S. Navy.

‡ Resigned, July 20, 1944.

** Resigned, August 31, 1945.

- GOODMAN, ERASTUS GENAIR, JR., (1940) M.D.
Instructor in Medicine Chapel Hill, N. C.
- GRAHAM, WILLIAM ALEXANDER, (1939) A.B., M.D.
Instructor in Obstetrics and Gynecology Beverly Apartments
- GRAVES, ROBERT WILLIAMS, (1936) B.S., M.A., M.D.
Assistant Professor of Neurology Cornwallis Road
- GRAY, IRVING EMERY, (1930) B.S., M.S., Ph.D.
Professor of Zoology 124 Pinecrest Road
- GREENHILL, MAURICE H., (1940) A.B., M.D.
Associate Professor of Neuropsychiatry Hope Valley
- *GREGORY, PAUL M., (1942) A.B., M.A., Ph.D.
Visiting Instructor in Economics 608 Buchanan Blvd.
- GRIMSON, KEITH S., (1942) B.A., B.S., M.D.
Associate in Surgery 213 Cornwallis Road
- GROSS, PAUL MAGNUS, (1919) B.S., A.M., Ph.D.
William Howell Pegram Professor of Chemistry Hope Valley
- GROUT, JULIA REBECCA, (1924) A.B., M.S.
Associate Professor of Physical Education, Woman's College 207 Jones Street
- HACKNEY, GEORGE F., (1943) B.S.
Visiting Instructor in Engineering Drawing, November, 1943, to June 30, 1945 1012 Knox Street
- HAINES, HOWARD N., (1943) B.S.
Visiting Instructor in Engineering Drawing 2307 Club Blvd.
- †HALL, FRANK GREGORY, (1926) A.B., A.M., Ph.D.
Professor of Zoology 122 Pinecrest Road
- HALL, LOUISE, (1931) B.A., S.B. in Architecture, Brevet d'Art de la Sorbonne
Assistant Professor of Fine Arts 210 Faculty Apartments
- †HALL, SNOWDEN COWMAN, (1937) A.B., M.D.
Associate in Medicine Danville, Va.
- HALL, WILLIAM HOLLAND, (1915) A.B., A.M., B.C.E., M.S.C.E.
Professor of Engineering and Dean of the College of Engineering 922 Urban Avenue
- HALLOWELL, JOHN HAMILTON, (1942) A.B., A.M., Ph.D.
Visiting Assistant Professor of Political Science 1502 Bivins Street
- HAMBLIN, EDWIN CROWELL, (1931) B.S., M.D.
Associate Professor of Obstetrics and Gynecology, and Clinical Professor of Endocrinology 810 Forest Hills Blvd.
- HAMILTON, WILLIAM BASKERVILLE, JR., (1936) A.B., A.M., Ph.D.
Assistant Professor of History 2256 Cranford Road
- HANDLER, PHILIP, (1939) B.S., M.S., Ph.D.
Assistant Professor of Biochemistry and Nutrition 2813 Legion Avenue
- HANES, FREDERIC MOIR, (1930) A.B., A.M., M.D.
Florence McAlister Professor of Medicine 2127 Myrtle Drive, West Campus
- HANLON, JOHN J., (1942) B.S., M.S., M.D., M.P.H.
Lecturer in Preventive Medicine and Public Health Duke Hospital

* Resigned, September 25, 1944.

† On active duty, U. S. Army.

- HANSEN-PRÜSS, OSCAR CARL EDVARD, (1930) A.B., M.D.
Associate Professor of Medicine in charge of Clinical Microscopy
 3 Surry Road, Hope Valley
- HARGITT, GEORGE THOMAS, (1930) Ph.B., A.M., Ph.D., Sc.D.
Professor of Zoology 811 Watts Street
- HARRAR, ELWOOD SCOTT, (1936) B.S., M.S., Ph.D.
Professor of Wood Technology 2228 Cranford Road
- *HARRIS, JEROME SYLVAN, (1936) A.B., M.D.
Assistant Professor of Pediatrics and Biochemistry Duke Hospital
- HART, DERYL, (1930) A.B., A.M., M.D.
Professor of Surgery Duke University Road and Highway 751
- HART, HORNE LL NORRIS, (1938) A.B., M.A., Ph.D.
Professor of Sociology 804 Fourth Street
- HARWELL, GEORGE CORBIN, (1935) A.B., A.M., Ph.D.
Instructor in English 2016 Sunset Avenue
- HATLEY, CHARLES CLEVELAND, (1917) A.B., A.M., Ph.D.
Professor of Physics 708 Buchanan Road
- HAUSER, CHARLES ROY, (1929) B.S., M.S., Ph.D.
Associate Professor of Chemistry 1020 Rose Hill Avenue
- †HEBB, MALCOLM HAYDEN, (1938) A.B., Ph.D.
Instructor in Physics 137 Pinecrest Road
- HENDRIX, JAMES PAISLEY, (1938) B.S., M.A., M.D.
Associate in Medicine 144 Pinecrest Road
- HERRING, HERBERT JAMES, (1924) A.B., A.M. Myrtle Drive, West Campus
Assistant Professor in Speech and Dean of Trinity College
- HESSER, FREDERICK HARRISON, (1941) A.B., M.D.
Instructor in Neurology 2921 Horton Road
- HETHERINGTON, DUNCAN CHARTERIS, (1930) A.B., M.A., Ph.D., M.D.
Associate Professor of Anatomy Hope Valley
- HICKMAN, FRANKLIN SIMPSON, (1927) A.B., S.T.B., A.M., Ph.D.
Professor of Preaching and the Psychology of Religion, and
Dean of the Chapel 823 Buchanan Road
- HICKSON, ARTHUR OWEN, (1929) A.B., A.M., Ph.D.
Assistant Professor of Mathematics 2712 Legion Avenue
- HILL, DOUGLAS, (1931) A.B., M.A., Ph.D.
Associate Professor of Chemistry Dixon Road
- HINTON, WILLIAM ARTHUR, (1942) B.S. in M.E., M.S. in M.E.
Assistant Professor of Mechanical Engineering 2124 Englewood Avenue
- HOBBS, MARCUS EDWIN, (1935) A.B., A.M., Ph.D.
Associate Professor of Chemistry 115 Pinecrest Road
- HOLLINSHEAD, WILLIAM HENRY, (1930) B.A., M.S., Ph.D.
Associate Professor of Anatomy 1008 W. Trinity Avenue
- HOLTON, HOLLAND, (1912) A.B., J.D.
Professor of the History and Science of Education, and
Director of the Summer Session 809 Watts Street

* On active duty, U. S. Army.

† Resigned, January 31, 1945.

- HOOKE, ROBERT, (1944) A.B., A.M., Ph.D.
Visiting Assistant Professor of Mathematics,
July 1 to November 1, 1944 Duke University
- HOOVER, CALVIN BRYCE, (1925) A.B., Ph.D., Litt.D.
Professor of Economics and Dean of the Graduate School of
Arts and Sciences 1702 Duke University Road
- HOPPER, SAMUEL HERSEY, (1942) B.S., M.S., Ph.D.
Instructor in Preventive Medicine and Public Health Duke Hospital
- HORACK, HUGO CLAUDE, (1930) Ph.B., LL.B., LL.D.
Professor of Law and Dean of the School of Law
 2021 Myrtle Drive, West Campus
- *HUBBELL, JAY BROADUS, (1927) A.B., A.M., Ph.D.
Professor of English 121 Pinecrest Road
- HULL, ROBERT, (1943) B.M., M.M.
Instructor in Music 202 Erwin Apartments
- †HUMPHREY, DON DOUGAN, (1945) A.B., Ph.D.
Associate Professor of Economics Duke University
- IRVING, WILLIAM HENRY, (1936) B.A., B.A. (Oxon.), M.A., Ph.D.
Professor of English 2707 Legion Avenue
- JAMES, MARY FRANCES, (1937) A.B., M.T. (A.S.C.P.)
Technical Instructor in Clinical Microscopy Duke Hospital
- JEFFERS, KATHERINE R., (1937) A.B., A.M., Ph.D.
Assistant Professor of Zoology 1507 West Pettigrew Street
- JENSEN, HOWARD EIKENBERRY, (1931) A.B., A.M., B.D., Ph.D.
Professor of Sociology 143 Pinecrest Road
- JOHNSON, MYCHYLE W., (1937) A.B., Ph.D.
Assistant Professor of Zoology 2108 Sprunt Street
- JOHNSTON, CHRISTOPHER, (1930) A.B., M.D.
Assistant Professor of Medicine 1417 W. Pettigrew Street
- JONES, HENRY HUNTER, (1943) A.B., C.E.
Visiting Instructor in Engineering Drawing 1505 Alabama Avenue
- JONES, SARA ELIZABETH, (1945) A.B., A.M.
Instructor in Zoology Duke University
- ‡JONES, THOMAS T., (1937) A.B., M.D.
Associate in Medicine 1919 Club Boulevard
- JORDAN, ARCHIBALD CURRIE, (1925) A.B., A.M.
Assistant Professor of English Pinecrest Road, Corner U. S. Highway No. 751
- JORDAN, BRADY RIMBEY, (1927) Litt.B., Ph.D.
Professor of Romance Languages 117 Pinecrest Road
- KAISER, HELEN LOUISE, (1943) R.P.T.T.
Instructor in Physical Therapy, in charge of Division of
Physical Therapy 208 Faculty Apartments
- †KEMP, EDWARD H., (1940) A.B., Ph.D.
Assistant Professor of Psychology 1403 Oakland Avenue

* Absent on sabbatical leave, second semester, 1945-1946.

† On leave of absence, 1945-1946.

‡ On active duty, U. S. Army.

- KEMPNER, WALTER, (1934) M.D.
Assistant Professor of Medicine 1505 Virginia Avenue
- KILGORE, SAMUEL REA, (1943) B.S., M.D.
Instructor in Neuropsychiatry 1001 Virgie Street
- KING, HERBERT ARTHUR, (1942) A.B., M.D.
Instructor in Medicine 1119 Buchanan Boulevard
- KOCH, SIGMUND, (1942) A.B., A.M., Ph.D.
Instructor in Psychology 2909 Horton Road
- KORSTIAN, CLARENCE FERDINAND, (1930) B.S.F., M.F., M.A., Ph.D.
Professor of Silviculture and Dean of the School of Forestry
1718 Duke University Road
- KRAMER, PAUL JACKSON, (1931) A.B., M.Sc., Ph.D.
Professor of Botany 2251 Cranford Road
- KRAYBILL, EDWARD K., (1939) B.S. in E.E.
Instructor in Electrical Engineering 900 Dacian Avenue
- KRUMMEL, CHARLES ALBERT, (1922) Ph.B., Ph.M., Ph.D.
Professor of German 2118 Englewood Avenue
- KUHN, HAROLD HUNTER, (1940) A.B., B.S., M.D.
Instructor in Orthopaedics University Apartments
- LAIDLAW, GEORGE NORMAN, (1945) B.A., M.A.
Visiting Assistant Professor of Romance Languages Duke University
- LANDON, CHARLES EDWARD, (1926) A.B., A.M., Ph.D.
Associate Professor of Economics 1517 Edgevale Road
- LANNING, JOHN TATE, (1927) A.B., A.M., Ph.D.
Professor of History Hope Valley
- LAPRADE, WILLIAM THOMAS, (1909) A.B., Ph.D.
Professor of History 1108 Monmouth Avenue
- LARSH, JOHN E., JR., (1943) A.B., M.S., Sc.D.
Associate in Parasitology Duke Hospital
- LATTY, ELVIN REMUS, (1937) B.S., J.D., J.Sc.D.
Professor of Law Hope Valley
- LEARY, LEWIS, (1941) B.S., A.M., Ph.D.
Assistant Professor of English 1503 Alabama Avenue
- LEIGHTON, CLARE, (1943) D.F.A.
Visiting Lecturer on Art Hope Valley Road
- LEMERT, BEN FRANKLIN, (1930) B.Sc. in Bus. Admin., M.A., Ph.D.
Associate Professor of Economic Geography 123 Pinecrest Road
- *LEONARD, HENRY SIGGINS, (1937) A.B., A.M., Ph.D.
Associate Professor of Philosophy 107 Pinecrest Road
- †LESTER, RICHARD ALLEN, (1940) Ph.B., M.A., Ph.D.
Associate Professor of Economics 2020 Wilson Street
- LEWIS, MODENA, (1933) B.S., M.A.
Instructor in Physical Education and Dance 305 Erwin Apartments
- LEWIS, RALPH ELTON, (1941) B.S., M.S. in M.E.
Assistant Professor of Mechanical Engineering 1308 Markham Avenue

* Absent on sabbatical leave, first semester, 1945-1946.

† Resigned, August 31, 1945.

- *LINEBARGER, PAUL MYRON ANTHONY, (1937) A.B., M.A., Ph.D.
Assistant Professor of Political Science Duke University
- LITTLE, LILLIAN H., (1944) B.S., M.A.
Instructor in Physical Education 801 Third Street
- LÖWENBACH, HANS, (1940) M.D.
Assistant Professor of Neuropsychiatry and Physiology 1017 Gloria Avenue
- LONDON, ARTHUR HILL, JR., (1932) B.S., M.D.
Associate in Pediatrics Corner Shepherd and Wells Streets
- LONDON, FRITZ, (1938) Ph.D., Docteur ès Sciences of the University of Paris
Professor of Theoretical Chemistry 1508 Oakland Avenue
- LOVELL, DURWARD LEE, (1937) M.D.
Associate in Surgery University Apartments
- LOWNDES, CHARLES LUCIEN BAKER, (1934) A.B., LL.B., S.J.D.
Professor of Law 2016 Club Boulevard
- LUNDEBERG, OLAV K., (1931) A.B., A.M., Ph.D.
Professor of Romance Languages 127 Pinecrest Road
- LUNDHOLM, HELGE, (1930) Fil. Kand., Fil. Lic., Ph.D.
Professor of Psychology 803 Second Street
- †LYMAN, RICHARD SHERMAN, (1940) B.A., M.D.
Professor of Neuropsychiatry 812 Anderson Street
- McBRYDE, ANGUS, (1931) B.S., M.D.
Assistant Professor of Pediatrics 1522 Hermitage Court
- McCAIN, PAUL PRESSLY, (1931) A.B., M.D., LL.D.
Assistant Professor of Medicine Southern Pines, N. C.
- ‡McCLOY, SHELBY THOMAS, (1927) A.B., M.A., B.A., B.Litt., Ph.D.
Assistant Professor of History Vineyard Street, Tuscaloosa Forest
- McCRACKEN, MAUDE, (1941) A.B., M.S.
Instructor in Medical Social Service 907 N. Mangum Street
- McCREA, FORREST DRAPER, (1930) B.S., M.S., Ph.D.
Associate Professor of Physiology and Pharmacology 1023 Demerius Street
- McCUTCHEON, FREDERICK HAROLD, (1944) B.S., M.S., Ph.D.
Visiting Lecturer in Physiology and Pharmacology Duke University
- McDERMOTT, MALCOLM, (1930) A.B., LL.B.
Professor of Law East Campus
- McFEATERS, CHARLIE PAUL, (1944) B.S., Captain, U. S. Navy
Professor of Naval Science and Tactics Myrtle Drive, West Campus
- McGAVOCK, WILLIAM GILLESPIE, (1944) B.S., A.M., Ph.D.
Visiting Assistant Professor of Mathematics 1503 Alabama Avenue
- McKEE, MARY ELLEN, (1944) B.S.
Instructor in Physical Education 113 Faculty Apartments
- **McLARTY, FURMAN GORDON, (1933) A.B., B.A., A.M., Ph.D.
Assistant Professor of Philosophy Hillsboro, N. C.
- McLEAN, RUTH, (1943) A.B., A.M.
Research Associate in Bacteriology Powe Apartments, Buchanan Blvd.
- MAGALHAES, HULDA, (1943) B.S., A.M., Ph.D.
Instructor in Zoology Faculty Apartments

* On active duty, U. S. Army.

† On leave of absence.

‡ Resigned, August 31, 1945.

** On active duty, U. S. Navy.

- *MAGGS, DOUGLAS BLOUNT, (1930) A.B., J.D., S.J.D.
Professor of Law Hope Valley
- MAKER, PHILIP TILLOTSON, (1942) A.B., A.M., Ph.D.
Assistant Professor of Mathematics, September, 1942, to March 1, 1945 Guess Road
- MANCHESTER, ALAN KREBS, (1929) A.B., A.M., Ph.D.
Associate Professor of History and Dean of Freshmen Myrtle Drive, West Campus
- †MANNING, ISAAC HALL, JR., (1939) A.B., M.D.
Associate in Medicine Duke University
- MARKEE, JOSEPH ELDRIDGE, (1943) B.S., Ph.D.
Professor of Anatomy 512 Jackson Street
- MARSHALL, DONALD, (1944) M.S., Lieutenant (jg), U. S. Navy
Instructor in Naval Science and Tactics 2426 Acadia Street
- MARTIN, DONALD STOVER, (1932) A.B., M.D.
Associate Professor of Bacteriology and Associate in Medicine 2208 Pershing Street
- MARTIN, ELSIE W., (1930) A.B., M.S.
Professor of Dietetics 206 Faculty Apartments, East Campus
- MATTHEWS, GEORGE, JR., (1944) Major, U. S. Army
Commandant, S.C.I., 3427, A.S.T.P. Medical Unit Chapel Hill, N. C.
- MASSENGILL, PAUL ROBINSON, (1943) A.B., M.D.
Instructor in Otolaryngology and Ophthalmology 2114 Club Boulevard
- MAUGHAN, WILLIAM, (1931) B.S., M.F.
Professor of Forest Management 5 Sylvan Road
- ‡MAXWELL, WILLIAM CARY, (1930) A.B., A.M., Ph.D.
Assistant Professor of German 142 Pinecrest Road
- MEIER, OTTO, JR., (1934) B.S. in E.E., M.S., E.E.
Associate Professor of Electrical Engineering 916 Monmouth Avenue
- MENEFEE, ELIJAH EUGENE, JR., (1940) B.S., M.D.
Associate in Medicine 2314 Woodrow Street
- MENKIN, VALY, (1944) B.S., A.M., M.D.
Assistant Professor of Pathology University Apartments
- MICKEY, HAROLD CHANDLER, (1936) B.A.
Associate in Hospital Administration 2223 Cranford Road
- MILAM, DANIEL FRANKLIN, (1939) A.B., M.P.H., M.D.
Associate in Preventive Medicine and Public Health Chapel Hill, N. C.
- MITCHELL, FRANK KIRBY, (1926) A.B., A.M.
Associate Professor of English East Campus
- MONTGOMERY, CLIFFORD COREY, (1944) A.B., A.M.
Visiting Instructor in History, July 1, 1944, to February 28, 1945 Erwin Apartments
- ‡MOORE, THOMAS H., (1940) B.S.
Instructor in Economics 1200 W. Markham Avenue
- MOORE, TOM ERNEST, (1944) B.S.
Visiting Instructor in Engineering Drawing, July 1, 1944, to February 28, 1945 123 Cheek Street
- **MORGAN, GEORGE ALLEN, JR., (1936) Ph.B., A.M., Ph.D.
Associate Professor of Philosophy Duke University

* Absent on leave, Government Service.

† On active duty, U. S. Army.

‡ On active duty, U. S. Navy.

** Resigned, August 31, 1945.

- MUELLER, EARL GEORGE, (1945) B.M., A.M., M.F.A.
Visiting Instructor in Aesthetics, Art, and Music Duke University
- MUFFLEY, BERNARD W. (1944) B.A., M.A., Lieutenant, U. S. Navy
Assistant Professor of Naval Science and Tactics 2422 Acadia Street
- MUTH, RODERICK VINCENT, (1943) Ph.B., Lieutenant, U. S. Naval Reserve
Assistant Professor of Naval Science and Tactics 305 W. Geer Street
- MYERS, HIRAM EARL, (1926) A.B., S.T.B., S.T.M.
Professor of Biblical Literature 141 Pinecrest Road
- NEALE, WILLIAM McCORMICK, (1945) B.E., M.E.
Visiting Instructor in Mechanical Engineering Duke University
- NELSON, ERNEST WILLIAMS, (1926) A.B., A.M., Ph.D.
Associate Professor of History 909 North Gregson Street
- NEURATH, HANS, (1938) Ph.D.
Associate Professor of Biochemistry 2505 Club Boulevard
- NICHOLS, MADALINE W., (1945) A.B., A.M., Ph.D.
Visiting Assistant Professor of Spanish and History Duke University
- NICHOLSON, WILLIAM McNEAL, (1935) A.B., M.D.
Assistant Professor of Medicine 812 Anderson Street
- NIELSEN, WALTER McKINLEY, (1925) B.S. in E.E., Ph.D.
Professor of Physics 139 Pinecrest Road
- NOOJIN, RAY O., (1940) A.B., M.D.
Instructor in Dermatology and Syphilology 132 Pinecrest Road
- *NORDHEIM, LOTHAR WOLFGANG, (1937) Ph.D.
Professor of Physics 2555 Cranford Road
- NORFLEET, GRIZZELLE M., (1938) A.B., B.S., M.A.
Supervisor of the Spastic Clinic Fifth Street
- ODOM, GUY LEARY, (1943) M.D.
Associate in Neurosurgery Hope Valley Road
- OOSTING, HENRY JOHN, (1932) A.B., M.S., Ph.D.
Associate Professor of Botany 2642 University Drive, Rockwood
- ORGAIN, EDWARD STEWART, (1934) M.D.
Assistant Professor of Medicine Hope Valley
- ORMOND, JESSE MARVIN, (1923) A.B., B.D., D.D.
Professor of Practical Theology 110 Pinecrest Road
- †OUTLER, ALBERT C., (1938) A.B., A.M., B.D., Ph.D.
Associate Professor of Historical Theology 2122 Englewood Avenue
- OWEN, JOHN FLETCHER, (1943) B.S., M.D.
Lecturer in Neuropsychiatry Duke Hospital
- PALMER, AUBREY E., (1944) B.S.E., C.E.
Instructor in Civil Engineering 103 Turrentine Street
- PARK, HUBERT VERN, (1944) A.B., A.M., Ph.D.
Visiting Associate Professor of Mathematics, July 1 to November 1, 1944 Duke University
- ‡PARKER, HAROLD TALBOT, (1939) A.B., Ph.D.
Instructor in History Duke University
- PARKER, HERMON MANLEY, (1944) A.B., M.A., Ph.D.
Visiting Instructor in Physics, July 1 to October 31, 1944 Duke University

* Absent on leave, Government Service, 1944-1945.

† Resigned, August 31, 1945.

‡ On active duty, U. S. Army.

- PATTERSON, KARL BACHMAN, (1920) A.B., A.M.
Assistant Professor of Mathematics 1024 Monmouth Avenue
- PATTINSON, HULME HOLMES, (1943) B.S.M.E., B.A.
Visiting Instructor in Mechanical Engineering,
July 1, 1943, to June 30, 1945 1322 Arnette Avenue
- PATTON, LEWIS, (1926) A.B., Ph.D.
Associate Professor of English 614 Swift Avenue
- PEARCE, CARNEY COOPER, JR., (1943) M.D.
Associate in Radiology 2631 Chapel Hill Road
- PEARSE, ARTHUR SPERRY, (1926) B.S., A.M., Ph.D., LL.D.
Professor of Zoology Chelsea Circle, Hope Valley
- PEELE, TALMAGE LEE, (1939) A.B., M.D.
Assistant Professor of Anatomy University Apartments
- PERLZWEIG, WILLIAM ALEXANDER, (1930) B.S., A.M., Ph.D.
Professor of Biochemistry Hope Valley
- PERRY, HAROLD SANFORD, (1932) A.B., Ph.D.
Assistant Professor of Botany 2302 Cranford Road
- *PERSONS, ELBERT LAPSLEY, (1930) A.B., M.D.
Assistant Professor of Medicine 723 Anderson Street
- PETRY, RAY C., (1937) A.B., A.M., Ph.D.
Professor of Church History 128 Pinecrest Road
- PICKRELL, KENNETH LEROY, (1943) M.D.
Associate in Surgery 3 Sylvan Road
- PINKERTON, MARGARET ISABEL, (1939) B.S., R.N.
Professor of Nursing and Dean of the School of Nursing 412 Swift Avenue
- POSTON, MARY ALVERTA, (1930) A.M.
Instructor in Bacteriology 512 Watts Street
- †POTEAT, JAMES DOUGLASS, (1936) A.B., LL.B., J.S.D.
Professor of Law 1106 Watts Street
- POTEAT, MARY, (1935) A.B., A.M., Ph.D.
Instructor in English 103 Faculty Apartments
- PREDMORE, RICHARD LIONEL, (1945) B.A., M.A., Ph.D.
Visiting Assistant Professor of Romance Languages Duke University
- PROCTOR, ARTHUR MARCUS, (1923) A.B., A.M., Ph.D.
Professor of Education Myrtle Drive, West Campus
- PUTNAM, FRANK WILLIAM, (1942) B.A., M.A., Ph.D.
Instructor in Biochemistry 1013 Dacian Avenue
- ‡QUYNN, DOROTHY MACKAY, MRS., (1930) A.B., A.M., Docteur de l'Université
 de Paris
Assistant Professor of History Woodridge Drive, Rockwood
- *QUYNN, WILLIAM ROGERS, (1930) B.A., M.A., Ph.D.
Assistant Professor of Romance Languages Woodridge Drive, Rockwood
- RANEY, RICHARD BEVERLY, (1934) A.B., M.D.
Associate in Orthopaedics 1110 Shepherd Street

* On active duty, U. S. Army.

† Absent on leave, Government Service.

‡ Absent on leave, 1945-1946.

- RANKIN, ROBERT STANLEY, (1927) A.B., A.M., Ph.D.
Professor of Political Science 1107 Knox Street
- RANKIN, WILLIAM WALTER, JR., (1926) B.E., M.A.
Professor of Mathematics 1011 Gloria Avenue
- *RATCHFORD, BENJAMIN ULYSSES, (1928) B.S., A.M., Ph.D.
Professor of Economics 133 Pinecrest Road
- RAYMOND, MARY LOIS, (1931) A.B., M.A.
Assistant Professor of Romance Languages 1003 Lamond Avenue
- REAMER, I. THOMAS, (1931) Ph.G.
Instructor in Pharmacy University Apartments
- REDDING, JOSEPH A., (1943) Lieutenant, U. S. Navy
Assistant Professor of Naval Science and Tactics 2428 Acadia Street
- REED, FREDERICK JEROME, (1935) M.E., M.S.
Associate Professor of Mechanical Engineering 2203 Englewood Avenue
- REEVES, ROBERT JAMES, (1930) A.B., M.D.
Clinical Professor of Radiology Anderson Street
- *REID, JOHN TURNER, (1939) A.B., A.M., Ph.D.
Assistant Professor of Romance Languages Duke University
- REIQUAM, ELTON THOMAS, (1944) B.S., Ensign, U. S. Navy
Instructor in Naval Science and Tactics 117 N. Queen Street
- †REQUE, PAUL GERHARD, (1940) M.D.
Instructor in Medicine, Dermatology and Syphilology 2023 Sprunt Street
- RHINE, JOSEPH BANKS, (1927) B.S., M.S., Ph.D.
Professor of Psychology 908 W. Club Boulevard
- RICHARDSON, MICHAEL RALPH, (1943) A.B., A.M.
Visiting Assistant Professor of Mathematics,
November 1, 1943, to March 1, 1945 618 McMannen Street
- RICHARDSON, WILLIAM P., (1938) B.S., M.P.H., Ph.D.
Associate in Preventive Medicine and Public Health Chapel Hill, N. C.
- ROBERT, JOSEPH CLARKE, (1938) A.B., A.M., Ph.D.
Associate Professor of History 1102 B Street
- ‡ROBERTS, JOHN H., (1931) A.B., Ph.D.
Associate Professor of Mathematics Legion Avenue, Tuscaloosa Forest
- †ROBERTS, LOUIS CARROLL, (1933) B.S., M.D.
Instructor in Urology 2028 Sunset Avenue
- ROBERTS, WILLIAM M., (1944) M.D.
Lecturer in Orthopaedics Duke Hospital
- ROGERS, ROBERT S., (1937) A.B., A.M., Ph.D., F.A.A.R.
Professor of Latin 148 Pinecrest Road
- ROPP, THEODORE, (1938) A.B., A.M., Ph.D.
Assistant Professor of History 302 Woodridge Drive
- ROSE, JESSE LEE, (1936) A.B., M.A., Ph.D.
Instructor in Latin and Greek 603 Watts Street
- ROSENAU, MILTON JOSEPH, (1936) A.M., M.D.
Lecturer in Preventive Medicine and Public Health Chapel Hill, N. C.
- †ROSS, NORMAN F., (1937) D.D.S.
Instructor in Dentistry Duke Hospital

* Absent on leave, Government Service, 1945-1946.

† On active duty, U. S. Army.

‡ On active duty, U. S. Navy.

- *ROSS, ROBERT ALEXANDER, (1930) B.S., M.D.
Associate Professor of Obstetrics and Gynecology 818 Anderson Street
- ROWE, GILBERT THEODORE, (1928) A.B., S.T.D., D.D., Litt.D.
Professor of Christian Doctrine 150 Pinecrest Road
- RUCKER, MARVIN PIERCE, (1941) A.M., M.D., LL.D.
Lecturer in Obstetrics and Gynecology Richmond, Va.
- RUDIN, JOHN J., II, (1945) A.B., M.A.
Instructor in Speech Duke University
- RUFFIN, JULIAN MEADE, (1930) A.B., M.A., M.D.
Associate Professor of Medicine 816 Anderson Street
- RUSSELL, ELBERT, (1926) A.B., A.M., Ph.D., Litt.D.
Professor of Biblical Interpretation and Dean Emeritus of the Divinity School 804 Fourth Street
- SANDERS, C. RICHARD, (1937) B.Ph., M.A., Ph.D.
Associate Professor of English 1004 Urban Avenue
- †SANDERS, PAUL HAMPTON, (1936) A.B., LL.B.
Associate Professor of Law 2711 Stuart Drive
- SAWYER, CHARLES HENRY, (1944) A.B., Ph.D.
Associate in Anatomy 2119 Englewood Avenue
- SAYLOR, JOHN HENRY, (1928) A.B., A.M., Ph.D.
Associate Professor of Chemistry 707 Club Boulevard
- SCATES, DOUGLAS EDGAR, (1939) A.B., Ph.D.
Associate Professor of Education 2247 Cranford Road
- SCHAUBEL, HOWARD JAMES, (1942) A.B., M.D.
Instructor in Orthopaedics Duke Hospital
- SCHIEBEL, HERMAN MAX, (1939) A.B., M.D.
Instructor in Surgery 1410 Pennsylvania Avenue
- SCHUMACHER, FRANCIS X., (1937) B.S.
Professor of Forestry 6 Sylvan Road
- SEELEY, WALTER JAMES, (1925) E.E., M.S.
Professor of Electrical Engineering 1005 Urban Avenue
- SHARP, D. GORDON, (1939) B.S., M.A., Ph.D.
Research Associate in Experimental Surgery 202 Frances Street
- SHEARS, LAMBERT ARMOUR, (1927) A.B., A.M., Ph.D.
Instructor in German 917 Green Street
- †SHEPHERD, HAROLD, (1939) A.B., J.D.
Professor of Law Cole Mill Road
- SHIELDS, JOHN HERMAN, (1926) A.B., A.M.
Assistant Professor of Accounting 1315 Vickers Avenue
- **SHIPMAN, GEORGE A., (1938) A.B., Ph.D.
Associate Professor of Political Science Duke University
- SIMPSON, WILLIAM HAYS, (1930) A.B., A.M., Ph.D.
Assistant Professor of Political Science 1408 Dollar Avenue
- SMITH, DAVID TILLERSON, (1930) A.B., M.D.
Professor of Bacteriology and Associate Professor of Medicine Hope Valley
- SMITH, HILRIE SHELTON, (1931) A.B., Ph.D., D.D., Litt.D.
Professor of Christian Ethics and Religious Education 1523 Hermitage Court

* On active duty, U. S. Navy.

† Absent on leave, Government Service.

‡ On active duty, U. S. Army.

** Absent on leave, Government Service, 1944-1945.

- *SMITH, O. NORRIS, (1937) B.A., M.D.
Associate in Medicine Greensboro, N. C.
- SMITH, PRESTON WILLIAM, (1932)
Technical Instructor in Clinical Microscopy Bickett Apartments
- SMITH, ROBERT SIDNEY, (1932) A.B., A.M., Ph.D.
Associate Professor of Economics 2236 Cranford Road
- SMITH, RUTH SLACK, MRS., (1927) A.B., A.M.
Instructor in Education and Associate Dean of Undergraduate Instruction, Woman's College 115 Faculty Apartments, East Campus
- SMITH, SUSAN GOWER, MRS., (1930) A.B., M.A.
Associate in Medicine Hope Valley
- SNIVELY, MARY HELEN, (1930) R.N., Anes.
Instructor in Anesthesia 2913 Horton Road
- SNOW, WILLIAM BREWSTER, (1942) B.S., M.S.
Instructor in Preventive Medicine and Public Health Duke Hospital
- SPEAS, WILLIAM EUGENE, (1944) A.B., Ph.D.
Visiting Instructor in Physics, July 1 to October 31, 1944 Duke University
- SPENCE, BESSIE WHITTED, MRS., (1929) A.B., A.M., B.D.
Instructor in Biblical Literature Hope Valley
- SPENCE, HERSEY EVERETT, (1918) A.B., A.M., B.D., D.D., Litt.D.
Professor of Biblical Literature and Religious Education Hope Valley
- SPENGLER, JOSEPH JOHN, (1934) A.B., M.A., Ph.D.
Professor of Economics 2240 Cranford Road
- SPONER, HERTHA, (1935) Ph.D.
Professor of Physics Hope Valley
- †SPRINGER, JOHN YOUNG, (1936) A.B., M.B.A.
Assistant Professor of Economics Duke University
- *STEVENS, JOSEPH BLACKBURN, (1940) B.S., M.D.
Associate in Medicine Duke Hospital
- *STILL, BAYRD, (1938) A.B., A.M., Ph.D.
Assistant Professor of History Duke University
- STINESPRING, WILLIAM FRANKLIN, (1936) B.A., M.A., Ph.D.
Professor of Old Testament 1107 Watts Street
- STOCKER, FREDERICK W., (1943) M.D.
Associate in Ophthalmology Bland Apartments
- STROBEL, CHARLES FREDERICK, (1944) A.B., A.M., Ph.D.
Visiting Assistant Professor of Mathematics, July 1 to November 1, 1944 Duke University
- STUBBS, FRANCIS HORATIO, JR., (1942) B.S., M.S., Lieutenant Commander,
 U. S. Navy (Ret.)
Associate Professor of Naval Science and Tactics 2106 Woodrow Street
- SUGDEN, HERBERT WILFRED, (1929) A.B., A.M., Ph.D.
Assistant Professor of English University Apartments
- SUITT, ROBERT BURKE, (1940) M.D.
Associate in Neuropsychiatry 1311 Dollar Avenue
- *SULLIVAN, DANIEL JOSEPH, (1940) M.D.
Instructor in Neuropsychiatry Duke Hospital

* On active duty, U. S. Army.

† On active duty, U. S. Navy.

- SUNDERLAND, ELIZABETH READ, (1939-42, 1943) A.B., A.M., Ph.D.
Assistant Professor of Art Faculty Apartments
- *SYDNOR, CHARLES SACKETT, (1936) A.B., Ph.D.
Professor of History 116 Pinecrest Road
- TALBERT, ERNEST WILLIAM, (1942) A.B., M.A., Ph.D.
Assistant Professor of English 2803 Nation Avenue
- TAYLOR, ALTON ROBERT, (1939) B.S., Ph.D.
Research Associate in Surgery 2117 Club Boulevard
- TAYLOR, HAYWOOD MAURICE, (1930) B.S., M.S., Ph.D.
Associate Professor of Biochemistry and Toxicology University Drive, Rockwood
- THEISS, ERNEST S., (1939) B.S. in M.E., M.S.
Assistant Professor of Mechanical Engineering 2645 University Drive
- THOMAS, JOSEPH MILLER, (1930) A.B., Ph.D.
Professor of Mathematics 2215 Cranford Road
- †THOMAS, WALTER LEE, JR., (1932) A.B., M.A., M.D.
Assistant Professor of Obstetrics and Gynecology 415 Carolina Circle
- THOMPSON, EDGAR TRISTRAM, (1935) A.B., A.M., Ph.D.
Associate Professor of Sociology and Mental Hygiene 138 Pinecrest Road
- ‡THOMSON, ROY BERTRAND, (1938) B.S., M.F., Ph.D.
Associate Professor of Forest Economics 2243 Cranford Road
- TRAPP, ROBERT NICOL, (1943) B.Sc., M.D., Lieutenant (M.C.) U.S.N.
Medical Officer, School of Medicine 2518 Banner Street
- TRENT, JOSIAH CHARLES, (1939) A.B., M.D.
Instructor in Surgery 1015 Demerius Street
- TRIPLETT, JOSEPH IRWIN, III, (1945) B.S., B.A., Lieutenant, U. S. Navy
Assistant Professor of Naval Science and Tactics Washington Duke Hotel
- ‡TRUESDALE, JAMES N., (1930) A.B., A.M., Ph.D.
Instructor in Greek Duke University
- VAIL, CHARLES ROWE, (1939) B.S. in E.E.
Assistant Professor of Electrical Engineering 1001 Watts Street
- VANCE, MARY HENDREN, MRS., (1926) A.B., A.M.
Assistant Professor of English 208 Watts Street
- VAN ALSTYNE, DOROTHY, (1942) A.B., A.M., Ph.D.
Visiting Assistant Professor in Education and Psychology Faculty Apartments
- **VAN DUSEN, ALBERT EDWARD, (1941) B.A., M.A.
Instructor in History 2807 Hillsboro Road
- VAN TUYL, JANICE, (1944) B.S.
Instructor in Physical Education 113 Faculty Apartments
- ***VAN VOORHIS, ROBERT HENRY, (1941) A.B., A.M., Ph.D.
Instructor in Economics 1002 Wells Street
- VOLLMER, CLEMENT, (1926) A.B., A.M., Ph.D.
Professor of German 2114 Myrtle Drive, West Campus
- VON BECKERATH, HERBERT, (1935) Ph.D.
Professor of Economics and Political Science Hope Valley

* Absent on sabbatical leave, 1945-1946.

† On active duty, U. S. Army.

‡ On active duty, U. S. Navy.

** Resigned, August 31, 1945.

*** Absent on leave, second semester, 1945-1946.

- VOSBURGH, WARREN CHASE, (1928) B.S., M.S., Ph.D.
Professor of Chemistry 2319 Englewood Avenue
- WACKERMAN, ALBERT EDWARD, (1938) B.S., M.F.
Professor of Forest Utilization Dover Road, Hope Valley
- WADE, LUTHER IRWIN, (1943) A.B., Ph.D.
Instructor in Mathematics 2418 Banner Street
- WADE, WALLACE, (1931) A.B.
Director of Physical Education, Trinity College Myrtle Drive, West Campus
- WALKER, CHARLOTTE FRISCH, (1941) M.D.
Associate in Neuropsychiatry 2121 W. Pettigrew Street
- WALTER, DAVID OSWELL, (1942) A.B., A.M., Ph.D., J.D.
Visiting Assistant Professor of Political Science; 2806 Legion Avenue
Lecturer on Labor Law, September, 1942, to February 28, 1945
- WALTON, LORING BAKER, (1929) A.B., Lic. ès L., Ph.D.
Associate Professor of Romance Languages 2235 Cranford Road
- WARD, CHARLES EUGENE, (1927) A.B., A.M., Ph.D.
Associate Professor of English Guess Road
- WATERS, LUTHER BRADFORD, JR., (1944) B.A., M.D.
Instructor in Radiology 1019 Markham Avenue
- WATSON, KARL BRANTLEY, (1936) B.S., A.B., A.M., Ph.D.
Assistant Professor of Education 1102 Virginia Avenue
- *WATSON, RICHARD L., JR., (1939) A.B., Ph.D.
Instructor in History Duke University
- WAY, VERNON ELGIN, (1930) A.B., A.M., M.A.
Assistant Professor of Greek 909 Gregson Street
- WEBB, ALBERT MICAHAH, (1903) A.B., A.M.
Professor of Romance Languages 1017 Trinity Avenue
- WEEKS, MARGARET, (1942) B.S., M.A.
Instructor in Physical Education Erwin Apartments
- WELFLING, WELDON, (1936) A.B., A.M., Ph.D.
Associate Professor of Economics Pickett Road
- WEST, ALFRED THURBER, (1930) B.S., A.M.
Assistant Professor of English 1112 Georgia Avenue
- †WHARTON, GEORGE WILLARD, JR., (1939) B.S., Ph.D.
Instructor in Zoology 1420 Pennsylvania Avenue
- WHITE, MARIE ANNE, MRS., (1930) A.B., A.M.
Assistant Professor of English 1003 Lamond Avenue
- WHITE, NEWMAN IVEY, (1919) A.B., A.M., Ph.D.
Professor of English 1003 Lamond Avenue
- WIDGERY, ALBAN GREGORY, (1930) B.A., M.A.
Professor of Philosophy St. Catherine, Pinecrest Road
- WILBUR, RALPH SYDNEY, (1933) B.S. in M.E., M.E.
Professor of Mechanical Engineering 1018 Demerius Street
- WILLIAMS, JAMES WESLEY, (1937) A.B., B.S. in C.E.
Assistant Professor of Civil Engineering 206 Swift Avenue
- WILSON, FREDERICK ELIPHAZ, (1923) A.B., A.M.
Assistant Professor of German 1020 Demerius Street

* On active duty, U. S. Army.

† On active duty, U. S. Navy.

- *WILSON, JOHN WOODROW, (1940) B.S., Ph.D.
Instructor in Zoology 1004 Monmouth Avenue
- WILSON, ROBERT NORTH, (1910) A.B., M.S.
Professor of Chemistry 822 Third Street
- †WILSON, ROBERT RENBERT, (1925) A.B., A.M., Ph.D., LL.D.
Professor of Political Science 717 Anderson Street
- ‡WISE, NANCY BOWMAN, (1937) A.B., M.D. University Apartments
Associate and James A. Greene Research Fellow in Medicine
- WOLF, FREDERICK ADOLPHUS, (1927) A.B., A.M., Ph.D. 924 Urban Avenue
Professor of Botany
- *WOODHALL, BARNES, (1937) A.B., M.D. Duke Hospital
Assistant Professor of Surgery in charge of Neurosurgery
- WOODY, ROBERT HILLIARD, (1929) Ph.B., A.M., Ph.D. 2648 University Drive
Associate Professor of History
- WRIGHT, JOHN JOSEPH, (1940) A.B., M.D., M.P.H. Duke Hospital
Instructor in Preventive Medicine and Public Health
- YOUNG, EDWARD HUDSON, (1923) A.B., A.M. 10 Beverly Apartments
Assistant Professor of Romance Languages
- YOUNG, FRANKLIN WOODROW, (1945) A.B., B.D. Faculty Apartments
Instructor in Biblical Literature
- ZENER, KARL EDWARD, (1928) Ph.B., A.M., Ph.D. Sparger Road
Professor of Psychology
-
- BATCHELDER, MARION FRANCES, (1939) R.N. Duke Hospital
Instructor in Nursing Administration and Supervision
- BEVINGTON, HELEN SMITH, MRS., (1943) Ph.B., M.A. 2608 Nation Avenue
Instructor (Part-time) in English
- BRESLOW, DAVID SAMUEL, (1944) B.S., Ph.D. Duke University
Instructor (Part-time) in Chemistry
- BRYAN, WILLIAM ALFRED, (1944) A.B., A.M. Duke University
Instructor (Part-time) in English, March 1, 1944, to February 28, 1945
- BRYSON, EDWIN CONSTANT, (1942) LL.B. 1023 Sycamore Street
Instructor (Part-time) in Economics, July 1, 1943, to October 31, 1944
- CARNES, WILLIAM FREDERICK, (1944) A.B., A.M. Duke University
Visiting Instructor in Mathematics, March 1, to October 31, 1944
- **CHAFFIN, NORA CAMPBELL, (1936) A.B., A.M., Ph.D. Bassett House
Instructor (Part-time) in History
- COHEN, ECKFORD LARRY, (1944) B.S. Duke University
Instructor (Part-time) in Mathematics, July 1, 1944, to February 28, 1945
- CONE, BONNIE ETHEL, (1943) B.S., A.M. 407 Watts Street
Visiting Instructor in Mathematics, August 1, 1943, to February 28, 1945
- DAVIS, ROGER BAXTER, (1944) Duke University
Visiting Instructor in Engineering Drawing, July 1 to October 31, 1944

* On active duty, U. S. Army.

† Absent on leave, Government Service, 1945-1946.

‡ Absent on leave.

** Resigned, August 31, 1944.

- EASTHAM, BARRY CAUFIELD, (1944) B.S., LL.B.
*Visiting Instructor in Physics, March 1, 1944,
 to February 28, 1945* Duke University
- EGERTON, FRANKLIN NICHOLAS, (1943) A.B., A.M.
*Visiting Instructor in Physics, July 1, 1943,
 to June 30, 1945* 810 Broad Street
- EVANS, ALONA E., (1944) A.B., Ph.D.
*Instructor (Part-time) in Political Science,
 September 15, 1944, to January 31, 1945* Duke University
- GREENEWALD, HERBERT, (1943) B.S.
Visiting Instructor in Physics, July 1, 1943, to February 28, 1945
 1819 Washington Street
- HARRIS, ANNA MAE, (1944) A.B., A.M.
Visiting Instructor in Mathematics, March 25 to October 31, 1944 Duke University
- KENNEDY, PHILIP EDWARD, (1943) A.B., A.M.
*Instructor (Part-time) in English, November 1, 1943,
 to October 31, 1944* Duke University
- KOZA, ROBERG WAYNE, (1943) A.B.
*Visiting Instructor in Physics, November 1, 1943,
 to October 31, 1944* Duke University
- KREPS, CLIFTON HOLLAND, (1943) A.B., A.M.
Instructor (Part-time) in Economics Duke University
- KREPS, JUANITA MORRIS, MRS., (1943) A.B., A.M.
Instructor (Part-time) in Economics Duke University
- LOVELL, ERNEST JAMES, JR., (1944) A.B., A.M.
Visiting Instructor in English, July 1 to October 31, 1944 Duke University
- MANES, MILTON, (1944) B.S.
Instructor (Part-time) in Chemistry Duke University
- MOORE, EDWARD JAMES, JR., (1944) B.A.
*Visiting Instructor in Physics, January 31, 1944,
 to February 28, 1945* Duke University
- MOORING, FRANCIS PAUL, (1944) A.B.
Visiting Instructor in Physics Duke University
- ONCLEY, LAWRENCE, (1944) B.S., M.S.
Visiting Instructor in Physics, July 1 to October 31, 1944 Duke University
- PALMER, AUBREY EDWIN, (1944) B.S.E., C.E.
Visiting Instructor in Civil Engineering Duke University
- PARKER, WILLIAM A., (1944) A.B.
Visiting Instructor in Physics, July 1 to October 31, 1944 Duke University
- SELL, JACOB CLYDE, (1943) B.S.
*Visiting Instructor in Physics, December 1, 1943,
 to February 28, 1945* Vance Apartments
- WEITH, A. JAMES, (1941) A.B., A.M.
Instructor (Part-time) in Chemistry Duke University
- *WINTER, EVA PIRKLE, MRS., (1943) A.B., A.M.
Visiting Instructor in Mathematics Faculty Apartments

RESEARCH ASSOCIATES

- ADAMS, JOE TAYLOR Chemistry 1128 Englewood Avenue
 B.S., Southern Methodist University; Ph.D., Duke University

* Resigned, February 1, 1945.

AMORE, SALVATORE THOMAS	Chemistry	807 Chapel Hill Street
A.B., Brooklyn College; M.A., Ph.D., Duke University		
BRESLOW, DAVID SAMUEL	Chemistry	807 Chapel Hill Street
B.S., College of the City of New York; Ph.D., Duke University		
DARKIS, FREDERICK RANDOLPH	Chemistry	1211 Alabama Avenue
B.S., M.A., Ph.D., University of Maryland		

INSTRUCTIONAL ASSISTANTS

ALTER, ALBERT JERVISS, (1944) A.B., M.D.		
<i>Assistant in Medicine</i>		2414 Club Boulevard
BALDWIN, MARIE, (1944) A.B., M.D.		
<i>Assistant in Neuropsychiatry</i>		Duke Hospital
BASHINSKY, LEO MAX, (1943) A.B., M.D.		
<i>Assistant in Pediatrics</i>		Duke Hospital
BEARD, DOROTHY WATERS, (1938) R.N.		
<i>Research Assistant in Experimental Surgery</i>		Hillsboro, N. C.
BONE, FRANK CUTCHIN, (1944) A.B., M.D.		
<i>Assistant in Medicine</i>		Duke Hospital
BOUCHER, GEORGE ORION, (1943) A.B., M.D.		
<i>Assistant in Pediatrics</i>		Duke Hospital
BROOME, ROBERT ALEXANDER, JR., (1944) M.D.		
<i>Assistant in Medicine</i>		Duke Hospital
BRYSON, EDWIN CONSTANT, (1931) LL.B.		1023 Sycamore Street
<i>Assistant in Legal Aid Clinic; Lecturer in Business Law</i>		
CALLAWAY, EUGENE, JR., (1944) M.D.		
<i>Assistant in Pediatrics</i>		Duke Hospital
COSTNER, ALFRED NIXON, (1944) B.S., M.D.		
<i>Assistant in Otolaryngology and Ophthalmology</i>		Duke Hospital
CULBRETH, GEORGE GORDON, (1944) A.B., M.D.		
<i>Assistant in Pathology</i>		Duke Hospital
DAVIDSON, ALAN, (1944) A.B., M.D.		
<i>Assistant in Otolaryngology and Ophthalmology</i>		Duke Hospital
DAVISON, ATALA THAYER SCUDDER, (1942) A.B., M.D.		
<i>Assistant in Pediatrics</i>		Hope Valley
DONEGAN, CHARLES KENDALL, (1944) M.D.		
<i>Assistant in Medicine</i>		Duke Hospital
EAGLES, WILLIAM MCCOY, (1944) A.B., M.D.		
<i>Assistant in Surgery</i>		Duke Hospital
EDWARDS, JOSEPH PHILIP, (1942)		
<i>Laboratory Technician in Electrical Engineering</i>		1604 B Street
*EDWARDS, LINUS MATTHEW, JR., (1940) D.D.S.		
<i>Assistant in Dentistry</i>		Duke Hospital
ERICKSON, JOHN OTTO, (1939) B.S., Ph.D.		
<i>Research Fellow in Biochemistry</i>		Duke Hospital
GLENN, JOHN CAPERS, (1944) M.D.		
<i>Assistant in Surgery</i>		Duke Hospital
GORDON, LAWRENCE ELLIOTT, JR., (1944) A.B., M.D.		
<i>Assistant in Obstetrics and Gynecology</i>		Duke Hospital
* On active duty, U. S. Army.		

HEIMBURGER, ROBERT FRANCIS, (1944) B.S., M.D. <i>Assistant in Surgery</i> <i>Assistant in Obstetrics and Gynecology</i>	Duke Hospital Duke Hospital
GREGORY, LUCY JANE, (1944) A.B., M.D.	
HODGE, GAMEEL BYRON, (1942) B.S., M.D. <i>Assistant in Surgery</i>	Duke Hospital
INGRAM, JAMES MAYHEW, JR., (1944) M.D. <i>Assistant in Obstetrics and Gynecology</i>	Duke Hospital
JONES, EDMUND PARSONS, JR., (1945) B.A., M.D. <i>Assistant in Pediatrics</i>	Duke Hospital
KNIGHT, ALTON J., (1938) A.B., LL.B. <i>Assistant in Legal Aid Clinic</i>	Carver Street (Ext.)
KUHN, BEATRICE HART, (1944) B.A., M.D. <i>Assistant in Dermatology and Syphilology</i>	University Apartments
LEEPER, WILLIAM EDWARDS, JR., (1944) M.D. <i>Assistant in Medicine</i>	Duke Hospital
MASON, MARY LOCHER, MRS., (1931) Diploma in Fine Arts, Teachers College, Columbia University <i>Assistant in Education</i>	2022 Club Boulevard
*MILLER, CHARLES HENDERSON, (1934) A.B., LL.B. <i>Assistant in Legal Aid Clinic; Lecturer in Business Law</i>	2108 Club Boulevard
OLIVER, KEITH MILLNER, (1944) B.S., M.D. <i>Assistant in Pediatrics</i>	Duke Hospital
OTT, JOHN FREDERICK, (1944) M.D. <i>Assistant in Neuropsychiatry</i>	Duke Hospital
POLITANO, VICTOR ANTHONY, (1944) B.S., M.D. <i>Assistant in Urology</i>	Duke Hospital
RILEY, KATHLEEN AMELIA, (1944) B.S., M.D. <i>Assistant in Dermatology and Syphilology</i>	Duke Hospital
RODDA, JAMES MERVIN, (1944) B.A., M.D. <i>Assistant in Radiology</i>	Duke Hospital
ROSS, GUSTAVO, (1943) M.D. <i>Assistant in Pediatrics</i>	Duke Hospital
THOMPSON, KEARNS REID, (1943) A.B., M.D. <i>Assistant in Orthopaedics</i>	Duke Hospital
TURNER, VIOLET HORNER, (1943) B.A., M.D. <i>Assistant in Obstetrics and Gynecology</i>	Duke Hospital
SCHLAYER, CLOTILDE, (1937) Ph.D. <i>Research Assistant in Medicine</i>	Duke Hospital
SEGERSON, JOHN ARTHUR, (1944) A.B., M.D. <i>Assistant in Neurology</i>	Duke Hospital
SHINGLETON, WILLIAM WARNER, (1944) A.B., M.D. <i>Assistant in Surgery</i>	Duke Hospital
SIMMONS, RAYMOND J., (1945) B.S., M.D. <i>Assistant in Surgery</i>	Duke Hospital
SMITH, MILTON CREGO, (1944) A.B., B.S., M.D. <i>Assistant in Pediatrics</i>	Duke Hospital

* Absent on leave, March 1, 1944-1945.

WILSON, DAVID ALEXANDER, (1942) B.A., M.A., M.D. <i>Assistant in Surgery</i>	Duke Hospital
WILSON, MARGARET, (1944) B.S., M.D. <i>Assistant in Otolaryngology and Ophthalmology</i>	Duke Hospital
WITHERS, ROBERT WALKER, JR., (1944) A.B., M.D. <i>Assistant in Pathology</i>	Duke Hospital
ZAVERTNIK, JOSEPH JAMES, (1944) A.B., M.D. <i>Assistant in Surgery</i>	Duke Hospital

INSTRUCTIONAL ASSISTANTS IN PHYSICAL EDUCATION
TRINITY COLLEGE

BURGER, WILBERT EUGENE, (1945) B.S. in Ed. <i>Instructor in Physical Education</i>	Duke University
CALDWELL, HERSCHEL, (1930) <i>Instructor in Physical Education; Coach of Freshman Sports</i>	908 Markham Avenue
CARD, WILBUR WADE, (1902) A.B. <i>Instructor in Physical Education</i>	1110 Minerva Avenue
CHAMBERS, ROBERT LUTHER, (1933) B.S. in Ed. <i>Instructor in Physical Education; Head Coach of Varsity Track</i>	2311 Prince Street
COOMBS, JOHN WESLEY, (1929) B.S. <i>Instructor in Physical Education; Head Coach of Varsity Baseball</i>	West Campus
COX, ROBERT CALVIN, (1942) A.B., M.A. <i>Instructor in Physical Education; Assistant in Football</i>	709 Shepherd Street
*DEAN, DAYTON ROBERT, (1931) A.B. <i>Business Manager of Athletics</i>	2207 Pershing Street
†FOGLEMAN, WILLIAM HARRY, (1935) A.B. <i>Instructor in Physical Education; Coach of Tennis</i>	2417 Farthing Street
GERARD, KENNETH, (1931) B.S. <i>Instructor in Physical Education; Director of Intramural Sports</i>	1209 North Duke Street
HAGLER, ELLIS, (1930) A.B. <i>Instructor in Physical Education; Coach of Varsity Golf; Assistant Coach of Football</i>	220 Forest Wood Drive
†LEWIS, HUBERT MURRY, (1937) B.S. <i>Assistant Instructor in Physical Education and Track</i>	Duke University
†MONTFORT, ROBERT, (1940) B.A. <i>Assistant Instructor in Physical Education</i>	Duke University
PERSONS, WALTER, (1930) A.B. <i>Instructor in Physical Education; Coach of Swimming; Coach of Lacrosse</i>	612 Swift Avenue
POTTER, HARVEY L., (1940) B.A. <i>Instructor in Physical Education; Coach of Wrestling</i>	2200 University Drive
STANLEY, DENNIS KEITH, (1939) A.B.E., M.Ed. <i>Instructor in Physical Education; Assistant Coach of Football</i>	University Apartments

* On active duty, U. S. Navy.

† On active duty, U. S. Army.

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Head Reference Librarian

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Head Circulation Librarian

512 Watts Street

†THARPE, JOSEPHINE M., A.B., B.S. in L.S., M.S. in L.S.
Acting Head Reference Librarian

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Curator of Manuscripts

Myrtle Drive

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Head Cataloguer

403 Watts Street

COVINGTON, LENA, A.B., A.B. in L.S.
Head Classifier

403 Watts Street

‡GREENE, JANE, A.B., B.A. in L.S.
Head Order Librarian

1004 West Trinity Avenue

HOPKINS, BERTHA, B.S., A.B. in L.S.
Head Serials Librarian

No. 11 Powe Apts., Buchanan Road

PARKER, WIXIE ELMA, A.B., B.S. in L.S.
Periodical Librarian

No. 7 Powe Apts., Watts Street

RAMAGE, MARY ALLENE, A.B., B.A. in L.S.
Newspaper and Film Librarian

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**ROSE, MRS. ETHEL A., A.B.
Head Descriptive Cataloguer

Powe Apts., Watts Street

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Pamphlet Librarian

1007 Urban Avenue

ATKINS, MRS. DOROTHY W., A.B.
Assistant, Serials Section

1700 Markham Avenue

BITTING, MARY ELIZABETH, A.B., M.A., A.B. in L.S.
Bibliographer

2105 Club Boulevard

BURCH, VELLA JANE, A.B., M.A., B.A. in L.S.
Descriptive Cataloguer

316 N. Elizabeth Street

CANADA, MARY WHITFIELD, A.B., M.A.
Assistant, Circulation Department

1311 Second Street

CLINE, JOHN
Assistant, Circulation Department

405 S. Alston Street

* On leave in defense work.

† Resigned, May 1, 1945.

‡ Resigned, July 31, 1945.

** Resigned, May 15, 1945.

COPLEY, HILDA <i>Assistant in charge, Work Room</i>	1005 Sixth Street
DOLLAR, MRS. ANNABELLE <i>Assistant, Work Room</i>	1609 Englewood Avenue
DUKE, MRS. KENNETH L. <i>Secretary to the Librarian</i>	701 Club Boulevard
FIELD, MRS. FRANK H., A.B., M.A. <i>Assistant, Serials Section</i>	302 Anderson Street
FREDERICK, MARION <i>Assistant, Serials Section</i>	No. 19 Ambassador Apartments
FREY, ELLEN FRANCES, B.A., M.A. <i>Curator of Rare Books</i>	No. 4 Powe Apts., Buchanan Road
GOODWIN, NOMA LEE, A.B. <i>Assistant, Manuscript Department</i>	Faculty Apartments
HAMMET, BESSIE <i>Accessions Librarian</i>	918 Lamond Avenue
HOCKMAN, MRS. CHARLOTTE F. <i>Assistant, Order Section</i>	No. 4 Powe Apts., Buchanan Road
HOLMAN, HARRIET, A.B., M.A. <i>Undergraduate Librarian</i>	Myrtle Drive
*HOPKINS, BETTY B., A.B. <i>Assistant, Order Section</i>	204 Faculty Apartments
KALE, MRS. ETHEL LONG <i>Assistant in charge, Engineering Library</i>	Chapel Hill Road
KENNEDY, JO, A.B., B.S. in L.S. <i>Documents Librarian</i>	2316 Club Boulevard
KIRKLAND, DOROTHY, A.B. <i>Assistant, Descriptive Cataloguing Section</i>	208 Jones Street
LAWS, ELLEN FRANCES <i>Assistant, Descriptive Cataloguing Section</i>	Route No. 1, Durham
LEMEN, WILHELMINA, A.B., A.B. in L.S. <i>Serials Cataloguer</i>	1700 Markham Avenue
LINTHICUM, ERMA <i>Assistant, Circulation Department</i>	811 Wilkerson Avenue
LONG, EDITH, A.B. <i>Assistant, Periodical Room</i>	104 Faculty Apartments
MANER, ADELAIDE S., A.B., B.S. in L.S. <i>Subject Cataloguer</i>	208 Buchanan Road
MACMILLAN, LOUISE, A.B. <i>Assistant, Serials Section</i>	1414 Dollar Avenue
NUNLEY, MRS. JESSIE D. <i>Librarian in charge, Biology Library</i>	108 E. Markham Avenue
REGAN, MRS. RUTH M. <i>Assistant, Order Section</i>	2217 Chapel Hill Road
RUTLEDGE, MRS. EVELYN H., A.B., B.S. in L.S. <i>Bibliographer</i>	717 Anderson Street

* Resigned, May 1, 1945.

- DIVINITY SCHOOL LIBRARY

- WOMAN'S COLLEGE LIBRARY

- * Resigned, June 1, 1945.
† On leave, May 15, 1945.
‡ Resigned, April 15, 1945.

LAW LIBRARY

- *ROALFE, WILLIAM ROBERT, LL.B.
Librarian 2410 West Club Boulevard
- LONG, MARIANNA, A.B., B.S. in L.S.
Acting Librarian 403 Watts Street
-
- COVINGTON, MARY SIMMONS, A.B., LL.B.
Research Librarian East Duke Campus
- DAY, KATHERINE, B.S.
Assistant Cataloguer 512 Watts Street
- HARWELL, MRS. GEORGE, A.B.
Assistant in Cataloguing Division 2016 Sunset Avenue

MEDICAL SCHOOL LIBRARY

- FARRAR, JUDITH, A.B., B.S.
Librarian 117 Faculty Apartments, East Campus

UNIVERSITY CHAPEL

- HICKMAN, FRANKLIN SIMPSON, A.B., A.M., S.T.B., Ph.D.
Dean of the Chapel 823 Buchanan Road
-
- BARNES, JAMES FOSTER, A.B., A.M.
Director of Choral Music 2401 Cranford Road
- BREES, ANTON
University Carillonneur Duke University
- †BROADHEAD, EDWARD HALL, A.B., A.M., M.M.
University Organist 1015 Dacian Avenue
- HENDRIX, MILDRED LITTLE, MRS., B.S.
University Organist 144 Pinecrest Road
-

- DUBOSE, ROBERT NEWSOME, A.B., B.D.
Adviser in Religious Activities Duke University
- ‡HIGHSMITH, AGNES, A.B., A.M.
Assistant in Religious Activities, Woman's College 113 Faculty Apartments
-

PHYSICAL EDUCATION AND STUDENT HEALTH

- WADE, WALLACE, A.B.
Director of Physical Education, Trinity College West Campus
- GROUT, JULIA REBECCA, A.B., M.S.
*Associate Professor of Physical Education,
Woman's College* 205 Jones Street

* Absent on leave, Government Service.

† Resigned, November 1, 1944.

‡ Resigned, November 30, 1944.

SPEED, JOSEPH ANDERSON, M.D. <i>Director of Student Health</i>	913 Dacian Avenue
PAGE, WRAY RAMSEY, MRS., R.N. <i>Resident Nurse</i>	East Campus Infirmary
VESTAL, MOZELLE, R.N. <i>Resident Nurse</i>	East Campus Infirmary

MUSICAL ACTIVITIES

BARNES, JAMES FOSTER, A.B., A.M. <i>Director of Men's Glee Club</i>	2401 Cranford Road
BARNES, MRS. JAMES FOSTER <i>Director of Women's Glee Club</i>	2401 Cranford Road
*FEARING, ROBERT BEVERIDGE <i>Director of the College Orchestras and Band</i>	410 Watts Street
BONE, ALLAN H., B.A., M.M. <i>Acting Director of College Band</i>	308 Greenwood Drive
HULL, ROBERT, B.M., M.M. <i>Acting Director of the College Orchestras</i>	202 Erwin Apartments

RESIDENCE AND SOCIAL DIVISION

WILSON, MARY GRACE, A.B. <i>Dean of Residence, Woman's College</i>	Faculty Apartments
SCHRADER, MRS. ARLINE DITLEVSON, A.B., A.M. <i>Assistant to Dean of Residence; Counselor, Southgate</i>	Southgate
PEMBERTON, MRS. MARY NORCOTT <i>Hostess, West Campus</i>	West Campus Union
BARNES, EVELYN, B.S. <i>Counselor, Alsbaugh House</i>	Alsbaugh House
DALE, DOROTHY J., A.B. <i>Counselor, Bassett House</i>	Bassett House
DEARMOND, GENEVIEVE, A.B., A.M. <i>Counselor, Pegram House</i>	Pegram House
GRIMSLEY, MRS. CORINNE, A.B., A.M. <i>Counselor, Aycock House</i>	Aycock House
PATTON, DOROTHY, A.B. <i>Counselor, Brown House</i>	Brown House
TAYLOR, MRS. HARRIET <i>Counselor, Giles House</i>	Giles House
WELLBORN, MARY MOSS, A.B. <i>Counselor, Jarvis House</i>	Jarvis House
POWELL, VIRGINIA, B.S. <i>Dietitian, the Union, West Campus</i>	214 Swift Avenue
OLIVER, MRS. HELEN <i>Dietitian, the Union, East Campus</i>	Corner Fairview and Wells Streets

* On active duty, U. S. Army.

NORWOOD, MRS. G. D.

Dietitian, Southgate Hall

204 Watts Street

BORING, MRS. HAL

Supervisor of Dormitories, West Campus

115 Watts Street

HOOKER, MRS. MARY R.

Supervisor of Dormitories, East Campus

Powe Apartments, Buchanan Road

LEA, MRS. BEULAH C.

Supervisor of Dormitories, West Campus

1920 Chapel Hill Road

LONG, MRS. R. T.

Supervisor of Dormitories, West Campus

705 Shepherd Street

WEGENER, MRS. MARY E.

Supervisor of Dormitories, East Campus

Powe Apartments, Buchanan Road

ALDRIDGE, FRED SOULE, A.B., A.M.

Chaplain of Duke Hospital and Director of the Golden Cross

East Campus

FELLOWS AND GRADUATE ASSISTANTS

UNIVERSITY FELLOWS

<i>Name</i>	<i>Department</i>	<i>Home Address</i>
*BAKER, MAURY DAVISON, JR. A.B., University of Miami; A.M., Duke University.	History	Richmond, Va.
BUCHANAN, EDITH A.B., Meredith College	English	Cullowhee, N. C.
CARROLL, HOWARD A.B., University of Richmond; B.D., Duke University	Religion	Easton, Md.
GESLING, MARTHA MYRA A.B., Ohio Northern University; A.M., Ohio State University	Education	Lancaster, Ohio
HERTZ, HILDA A.B., Skidmore College; A.M., Duke University	Sociology	Forest Hills, L. I., N. Y.
KREPS, CLARA JUANITA MORRIS A.B., Berea College; A.M., Duke University	Economics	Norfolk, Va.
KREPS, CLIFTON HOLLAND, JR. B.A., The College of William and Mary; A.M., University of North Carolina	Economics	Norfolk, Va.
LEWIS, FRANK BELL A.B., A.M., Washington & Lee University; B.D., Th.M., Union Theological Seminary	Religion	Maxwelton, W. Va.
MATTE, LORENZO B.A., Laval University; M.F., Duke University	Forestry	Quebec City, Canada
NAU, WALTER THEODORE A.B., Guilford College; B.D., Concordia Theological Seminary; A.M., Duke University	Romance Languages	Lexington, N. C.
PARKS, ELIZABETH MIRIAM A.B., Grinnell College	English	Denver, Colo.
RHODES, DANIEL DURHAM A.B., Davidson College; B.D., Louisville Presbyterian Theological Seminary	Religion	Rocky Point, N. C.

* Resigned, January 31, 1945.

<i>Name</i>	<i>Department</i>	<i>Home Address</i>
SALOMON, ANN DOUGLASS A.B., Swarthmore College	Psychology	New London, Conn.
SCHAFER, THOMAS ANTON A.B., Maryville College; B.D., Louisville Presbyterian Theological Seminary	Religion	E. Liverpool, Ohio
WIGGINS, ELIZABETH LEWIS A.B., Winthrop College; A.M., Duke University	English	Holly Hill, S. C.
WOOD, VIRGINIA LORAIN A.B., Roanoke College; A.M., Duke University	Political Science	Roanoke, Va.
YOUNG, FRANKLIN WOODROW A.B., Dartmouth College; B.D., Crozer Theological Seminary	Religion	Columbus, Ohio

GRADUATE RESEARCH ASSISTANTS

BLOOM, MELVIN SIGMUND B.S., Furman University	Chemistry	Greenville, S. C.
SCHERAGA, HAROLD ABRAHAM B.S., College of the City of New York; A.M., Duke University	Chemistry	Durham, N. C.
SHIVERS, JOSEPH CLOIS, JR. B.S., A.M., Duke University	Chemistry	Riverton, N. J.
WALKER, HOWARD GEORGE, JR. B.S., Duke University	Chemistry	Westfield, N. J.
WEISS, MARTIN JOSEPH A.B., New York University	Chemistry	New York, N. Y.
WEITH, ARCHIE JAMES, JR. A.B., A.M., Duke University	Chemistry	Caldwell, N. J.
YOST, ROBERT STANLEY B.S., Pennsylvania State College	Chemistry	Pottsville, Pa.

GRADUATE ASSISTANTS

BISHOP, BENJAMIN HAROLD B.S., Wofford College	Chemistry	Spartanburg, S. C.
BRAVERMAN, HOWARD A.B., Brooklyn College	History	Brooklyn, N. Y.
BRYAN, THOMAS CONN A.B., Duke University; A.M., University of North Carolina	History	Skyland, N. C.
CAPUA, JULIUS PAUL, II A.B., Augustana College	History	Muskegon, Mich.
CLAVERING, ROSE A.B., Brooklyn College	English	Brooklyn, N. Y.
COHEN, ECKFORD LARRY B.S., Mississippi State College	Mathematics	Starkville, Miss.
COLLINS, HERBERT A.B., Brooklyn College	History	Brooklyn, N. Y.
CULBERTSON, JACK ARTHUR A.B., Emory and Henry College	German	Nickelsville, Va.
*CUMMINGS, ANNE BURT STAINBACK A.B., Hollins College	Psychology	Pittsburgh, Pa.
DENNY, MARY REBECCA A.B., Salem College; A.M., Duke University	English	Charlotte, N. C.

* Second semester only.

<i>Name</i>	<i>Department</i>	<i>Home Address</i>
DILLINGHAM, WILLIAM PYRLE B.A.E., University of Florida; M.S., University of Tennessee	Economics	Durham, N. C.
FOUCH, ANN A.B., Duke University	Zoology	Orrville, Ohio
GIULIANO, JERRY JAMES B.S., Duke University	Chemistry	Irvington, N. J.
HOLMAN, HARRIET R. A.B., Winthrop College; A.M., University of Michigan	English	Anderson, S. C.
HORN, HERMAN LIONEL A.B., Bridgewater College; A.M., Duke University	Political Science	Mt. Solon, Va.
KINGSTON, MARION JOSEPHINE A.B., Mount Holyoke College	English	Melrose, Mass.
KNOX, NORMAN DAVIS A.B., Swarthmore College	English	Durham, N. C.
LAIR, EUGENIE DILLE A.B., Randolph-Macon Woman's College	Botany	Cynthiana, Ky.
LEVINE, BERTRAM A.B., Duke University	Zoology	Paterson, N. J.
LUBORSKY, LESTER BERNARD A.B., Temple University; A.M., Duke University	Psychology	Philadelphia, Pa.
PETERS, FRANK ANTHONY A.B., University of Alabama	History	Tuscaloosa, Ala.
PURCELL, CHARLES WILLIAM, JR. A.B., Marshall College	History	Huntington, W. Va.
RINGLER, BETTY IRENE B.S., Florida State College for Women	Chemistry	St. Petersburg, Fla.
ROGERS, DOROTHY A.B., A.M., University of Georgia	Education	Ashburn, Ga.
ROSENBAUM, HASKELL MENACHIM B.S., College of the City of New York	Chemistry	Sunnyside, N. Y.
SALTZMAN, IRVING JACKSON B.S., Massachusetts State College	Psychology	Dorchester, Mass.
SCHULZE, FRANCES ELAINE A.B., Marshall College	Psychology	Pelham Manor, N. Y.
SHIREY, WILLIAM ARTHUR A.B., DePauw University; A.M., Indiana University	Sociology	Durham, N. C.
TOMLINSON, MURIEL DOROTHY A.B., Bates College	Romance Languages	Manchester, Conn.
TURNER, ANNE CLARA A.B., University of Georgia; A.M., Duke University	Latin	Albany, Ga.
WARREN, MARGARET ELIZABETH A.B., Duke University	Chemistry	Shaker Heights, Ohio
WICKER, GLORIA LOUISE B.S., Lander College	Chemistry	Greenwood, S. C.
WIGGINS, PAULINE EVELYN A.B., University of Chattanooga	English	Birchwood, Tenn.

<i>Name</i>	<i>Department</i>	<i>Home Address</i>
ZEKOWSKI, ARLENE JEAN A.B., Brooklyn College	Romance Languages	Brooklyn, N. Y.

GRADUATE SCHOLARS

BARSTOW, BETTY DICK A.B., University of Michigan	Mathematics	Midland, Mich.
BENNETT, JEAN ARLINE A.B., Duke University	Romance Languages	Brevard, N. C.
CLARK, ELLEN MERCER A.B., University of Richmond	Latin	Atlee, Va.
DUBOSE, SAMUEL WILDS A.B., Davidson College; A.M., Duke University; B.D., Seminary	Religion	Hillsboro, N. C. Union Theological
EVANS, ROBERT WELDON A.B., Hendrix College; B.D., Duke University	Religion	Batesville, Ark.
MCGRIFF, MARY EMILY A.B., Duke University	History	Birmingham, Ala.
*MULDROW, MARY FRANCES A.B., Georgia State College for Women	Romance Languages	Milledgeville, Ga.
ROGOLINO, MARY THERESA A.B., Florida State College for Women	Romance Languages	St. Augustine, Fla.
RUDISILL, DORUS PAUL A.B., Lenoir Rhyne College; A.M., University of South Carolina; B.D., Lutheran Theological Seminary; S.T.M., Hartford Theological Seminary	Religion	Chapel Hill, N. C.
*SMITH, MARY BETTY A.B., Drury College	History	Springfield, Mo.

LABORATORY INSTRUCTORS

FIELD, FRANK HENRY B.S., A.M., Duke University	Chemistry	Cliffside Park, N. J.
KINGSBURY, RALPH NORMAN B.S., Northeastern University	Chemistry	Milton, Mass.
LEVINE, ROBERT A.B., A.M., Dartmouth College	Chemistry	Boston, Mass.
PARKER, MARY ELLEN A.B., Randolph-Macon Woman's College	Chemistry	Roanoke, Va.
VINGIELLO, FRANK ANTHONY B.S. in Chem., Polytechnic Institute of Brooklyn	Chemistry	Brooklyn, N. Y.
WALKER, HOWARD GEORGE, JR. B.S., Duke University	Chemistry	Westfield, N. J.
WISSOW, LENNARD JAY B.S., Pennsylvania State College; A.M., Duke University	Chemistry	Philadelphia, Pa.

* Resigned, January 31, 1945.

UNDERGRADUATE COLLEGES

Trinity College
The Woman's College
The College of Engineering

1944-1945
ANNOUNCEMENTS FOR 1945-1946

THE COLLEGES

GENERAL STATEMENT

Duke University offers in Trinity College, the Woman's College, and the College of Engineering three academic degrees for undergraduate work: Bachelor of Arts, Bachelor of Science, and Bachelor of Science in Civil, Electrical, or Mechanical Engineering.

TRINITY COLLEGE

Trinity College is the undergraduate college of arts and sciences for the men of Duke University and is situated on the West Campus along with the Graduate School of Arts and Sciences, the School of Law, the School of Medicine, the School of Nursing, the School of Forestry, and the Divinity School.

THE WOMAN'S COLLEGE

The Woman's College of Duke University is a college of arts and sciences within the University which provides for the instruction of undergraduate women as Trinity College provides for the instruction of undergraduate men.

THE COLLEGE OF ENGINEERING

Duke University, through the College of Engineering, offers standard four-year courses in civil, electrical, and mechanical engineering, with an aeronautics option for mechanical engineers.

THE LIBRARIES

The library resources of the University total 705,770 volumes, 882,223 manuscript pieces, and 3,000 books on microfilm. Eighty-three foreign and domestic newspapers and 2,969 periodicals are received currently.

The University Library, in which the bulk of the collection is housed, is centrally located on the West Campus. The main Reference and Reading Room on the second floor contains about 5,000 volumes of important reference works and the books on reserve for senior-graduate courses. The Undergraduate Reading Room on the first floor contains a specially selected collection of approximately 2,000 books for general undergraduate reading and reference, together with the books on reserve for undergraduate courses. The Documents Room on the second floor gives students access to the official publications of the federal and state governments. Seniors, honor students, and others undertaking special studies may be admitted to the stacks to facilitate their work. The Chemistry library of 11,178 volumes, the Physics-Mathematics library of 10,522 volumes, the Biology-Forestry library of 30,863 volumes, the College of Engineering library of 8,346 volumes, and the Divinity School library of 36,660 volumes are housed in the buildings in which these subjects are taught

to make them convenient especially to the faculty and students in these fields. The Medical library of 41,579 volumes and the Law library of 76,274 volumes are housed in the Medical and Law buildings respectively.

The Woman's College Library, which is one of the dominant units of the Georgian architecture of the East Campus, contains approximately 62,875 volumes. Among these are the books most constantly needed in the undergraduate work of women students. An attractive feature of the Library is the Booklovers' Room, comfortably furnished, where on open shelves students may find interesting books in various fields. In honor of Mr. James A. Thomas, the Thomas Memorial Room was opened in December, 1942. The decorations and furnishings in this room were provided by Chinese and American friends of Mr. Thomas. It affords a quiet, comfortable place for studying or reading.

Undergraduate students also have free access to the library collections of the Medical and Law Schools.

NAVAL RESERVE OFFICERS' TRAINING CORPS

The primary object of the Naval Reserve Officers' Training Corps is to provide systematic instruction and training in essential naval subjects for a group of selected students so that they may be qualified and available for duties as deck officers in the United States Navy. The work supplements other courses taken in the University.

Admission

Enrollment in the Naval Reserve Officers' Training Corps is entirely voluntary. Selection will be made from those students of the Freshman Class who are enrolled in the V-12 U. S. Navy College Program, after the completion of two semesters of college work under that program. Selection will be based on the academic work and the personality of the candidate.

Outline of Course

The Department of Naval Science and Tactics is an integral part of the University, and the courses in Naval Science and Tactics are on the same level and receive the same form of credit toward graduation as other courses in the University.

The course in Naval Science and Tactics is a five-semester course, beginning at the completion of two semesters of Freshman work. Satisfactory completion of each semester's work is necessary for continuance in the Unit.

The study of navigation and other subjects included as a part of the course requires a basic knowledge of mathematics, including algebra, plane and solid geometry, and plane trigonometry. The two semesters of Freshman work will cover the required mathematics.

Uniforms, Books, and Equipment

Students in the course are furnished complete uniforms by the Navy Department. Students, however, provide themselves such items as collars, white shirts, black socks, and black shoes.

All books and equipment that the student needs in the course are loaned

to him without cost. A deposit of \$10.00 is required of each student to cover lost or damaged equipment. This deposit, or as much of it as remains, will be returned when the student severs his relation with the Unit.

Draft Status

All students enrolled will be enlisted in the U. S. Naval Reserve, will be on active duty, will receive regular Navy pay of grade, and will be furnished housing, board, instruction and medical attention at Government expense. As members of the Naval Reserve they are exempt from the Selective Service and Training Act, and their stay in college is dependent upon satisfactory academic training and good behavior; otherwise they will be sent to sea as apprentice seamen.

ADMISSION TO TRINITY COLLEGE AND THE WOMAN'S COLLEGE

Applicants may qualify for admission to Trinity College or the Woman's College as members of the Freshman Class or as students with advanced standing. Since the enrollment in the two colleges is limited, the Committee on Admissions will select the students who, in its opinion, are best qualified to benefit from the educational advantages which the colleges offer.

APPLICATION FOR ADMISSION

Application for admission to Trinity College should be made to the Secretary of Duke University, Duke Station, Durham, North Carolina, for transmittal to the Council on Admissions. Application for admission to the Woman's College should be made to the Committee on Admissions, College Station, Durham, North Carolina. Forms of application will be sent on request.

GENERAL REQUIREMENTS

Admission to Trinity College and to the Woman's College is dependent upon the ability, attainments, and character of the applicant. Each applicant must see that the Committee on Admissions receives a complete record of his work in secondary school or college, the required medical certificate, and satisfactory evidence of his good character and ability.

SPECIFIC REQUIREMENTS

An applicant for admission to the Freshman Class must present at least fifteen acceptable units of secondary school credit. A unit of credit is allowed for a course of study pursued throughout an academic year at an accredited secondary school, if the course has demanded five recitations a week and the prescribed amount of work has been completed satisfactorily.

1. Twelve units must be in English, foreign language, history and social studies, mathematics, and natural science; and must include:
 - (a) English—3 units.
 - (b) Algebra—1 unit.
 - (c) Plane geometry—1 unit.
2. Three units may be in the subjects listed above or from those in the following table. The units indicate the maximum amount of credit acceptable in each subject:

SUBJECT	UNITS	SUBJECT	UNITS
Agriculture	2	Mechanical Drawing	2
Art	1	Music	1
Commercial Subjects	3	Physical Geography	1
Economics	1	Sociology	1
Household Economics	2	Woodworking, Machine Work	2

Other units offered in subjects not included in this list will be considered for acceptance on the basis of full statements transmitted with the applicant's record from the school recommending him.

ADMISSION BY CERTIFICATE

A graduate of an accredited school, who submits fifteen acceptable units of secondary school subjects, is recommended by his principal, and otherwise meets the requirements of the Admissions Committee, may be admitted without examination. This certificate must be on blanks furnished by the College and signed by the principal of the school in which the applicant completed his course.

ADMISSION BY EXAMINATION

An applicant who presents fifteen acceptable units for admission from a nonaccredited school is required to validate these units by entrance examinations and such other tests as the College may prescribe.

ADMISSION WITH ADVANCED STANDING

A student of good character who has completed satisfactorily at least one full year of college work in an approved college may be admitted with advanced standing. He must have fulfilled the equivalent of the requirements for admission to the Freshman Class, must present official certificates of all work done in other institutions, and have honorable dismissal from each institution previously attended. Credit for work completed will be determined in relation to the curriculum at Trinity College or the Woman's College.

A student enrolling for the Bachelor's degree who transfers from a junior college or from a four-year college not affiliated with the Southern Association, or a similar regional association, is under all circumstances required to continue for at least one semester in Trinity College or in the Woman's College the foreign language he presents for minimum graduation requirements.

A student who has transferred from a junior college or from a four-year college not affiliated with the Southern Association, or a similar regional association, must present laboratory notebooks in all science courses that are offered for advanced credit.

A student admitted with advanced standing will be given an average grade of "C" on the semester hours with which he is credited, provided his grades warrant it. In order to make his provisional classification final, he must pass during his first year of residence not less than the equivalent of four year-courses, with an average grade of "C" or higher.

The maximum amount of credit acceptable from a junior college is sixty semester hours.

No credit is given for work completed by correspondence, and not more than six semester hours of credit are allowed for work done by extension. Any extension work accepted must be specifically approved by the Dean of the College.

ADMISSION FOR SPECIAL WORK

Upon the approval of the Dean, a student of mature age may be admitted for special work in such courses of instruction as he is qualified to take, but not as a candidate for a degree in a regular course unless he meets all requirements for admission.

READMISSION OF FORMER STUDENTS

A student who, following withdrawal from College, desires to return to the College, should apply to the Dean for readmission. If a student has completed during his absence from the College any undergraduate work in another institution of approved standing, he must submit an official transcript of this work, with a statement of honorable dismissal, from that institution.

PRELIMINARY TESTS AND EXAMINATIONS

During the orientation period all Freshmen are given placement tests in chemistry, English, mathematics, and the foreign language they are to continue. On the results of these tests and general ability tests students are assigned to the proper sections of their respective academic subjects. Physical examinations are also given.

REQUIREMENTS FOR DEGREE OF BACHELOR OF ARTS

GENERAL REGULATIONS

The requirements for the degree of Bachelor of Arts are designed to give the students such training in certain fundamental subjects as is essential for intelligent, educated citizens. The requirements also provide the opportunity for as wide an election as possible from courses of study which are both interesting and practically helpful in connection with vocations the students plan later to pursue.

Credit for one hundred and twenty semester hours, on which an average grade of "C" must be made, is required for the degree of Bachelor of Arts in all groups. In addition to these requirements all candidates for the Bachelor of Arts must complete, with an average grade of "C" or better, physical education to the equivalent of six semester hours. In Trinity College the physical education requirement is completed by the end of the Sophomore year; in the Woman's College, by the end of the Junior year.

The Faculty has authorized the groups of studies below for the guidance of students in selecting the work required for graduation. A student is free to choose any group he may desire. The several groups are designed to be of special value in a chosen profession and at the same time to provide a well-balanced course of study. With the approval of the Dean a student may at any time transfer from one group to another. In such transfers, work done in one group and not prescribed in the other will count as general elective credit, but all work prescribed in the new group must be completed before the student can be graduated.

No student is permitted to take less than fourteen semester hours of work without special permission from the Dean; to take more than the normal load of work (fourteen to seventeen semester hours) unless his average grade in the preceding semester is "C" or above; or, under any conditions, to take more than nineteen semester hours of work, exclusive of required physical education.

On or before the date announced for the spring registration every student is required to designate the group in which he plans to graduate and to arrange his program of courses for the ensuing year. All students, when choosing courses, are urged to seek the advice of instructors in whose departments they expect to receive instruction. No course card is valid until it has the approval of the Dean.

SPECIAL REGULATIONS

The following special rules applying to the selection of courses are authorized by the Faculty:

The total amount of work that a student, other than an Honors student, may take in any one department toward the Bachelor of Arts degree is limited to a maximum of thirty-six semester hours; with the exception that a student whose principal work is in the Department of English, Economics, or Romance Languages may be permitted to take additional work in subdepartments not to exceed a total in the department and the subdepartments of fifty-four semester hours.

Candidates for the degree of Bachelor of Arts whose courses of study permit may elect work from the following subjects: engineering, not to exceed eighteen semester hours; forestry, not to exceed eighteen semester hours. The courses elected in these departments must be those approved by the Council on Undergraduate Instruction as appropriate for the Bachelor of Arts degree and published in the *Bulletin of Undergraduate Instruction*. The classification of these courses, as they affect divisions of concentration and restricted electives, is left to the student's major adviser and to the Dean.

No Senior may take for graduation credit any course primarily open to Freshmen; and no Junior may take for graduation credit more than one course primarily open to Freshmen. A list of these courses is published in the *Bulletin* under "Courses of Instruction."

Not more than one course of six or eight semester hours of credit in final fulfillment of the requirements for the degree of Bachelor of Arts in Duke University may be taken in another institution of approved standing, and this course must first be approved by the head of the department concerned and by the Dean.

MINIMUM UNIFORM REQUIREMENTS FOR ALL GROUPS

The following requirements are authorized for all groups:

	S.H.
English 1-2	6
Natural Science	8
Economics, History, or Political Science	6
Religion	6

In addition to the above requirements, at least the third college year of a foreign language must be completed.

English 1-2, 6 s.h.—This requirement is normally met by the completion of English 1 and 2. A Freshman who satisfies the Department of English of his superior ability in composition may substitute, however, another English course for English 1.

Natural Science, 8 s.h.—A student who does not present for entrance an acceptable unit of science must take sixteen semester hours of science for graduation.

Economics, History, or Political Science, 6 s.h.—A student who does not present for entrance two acceptable units of history (exclusive of other social science work) must take history as his required work; otherwise he may fulfill this requirement in any one of the three subjects.

Foreign Language (third college year).—Students who begin their language requirements in college are expected to follow the sequence of courses

laid down by the department whose work they take and can omit only such course or courses as may be approved both by the department and the office of the Dean. If a Freshman presents for entrance four units of Latin, he may satisfy his language requirements by taking either two years of Latin or two years of Greek. In exceptional cases, on the recommendation of the department and with the approval of the Dean, a student who has completed the second college year of a language may satisfy the requirement in language by completing the first college year of another language.

Of these minimum requirements, at least three courses, including English and foreign language, should be taken in the Freshman year, and all of them, except foreign language and religion, by the end of the Sophomore year.

These courses primarily open to Freshmen and the courses that will satisfy the requirements in history, science, and religion are listed under "Courses of Instruction."

GROUPS OF STUDIES FOR THE DEGREE OF BACHELOR OF ARTS

GROUP I

GENERAL

This group is based on the traditional requirement for the degree of Bachelor of Arts. Students who choose it must complete the minimum uniform requirements for graduation; forty-two semester hours in a division of concentration, exclusive of courses open primarily to Freshmen (in the Division of the Natural Sciences a maximum of eight hours of Freshman work is permitted in the forty-two hours mentioned above); twelve semester hours of restricted electives in the other divisions; and free elective work sufficient to complete, with an average grade of "C," the one hundred and twenty semester hours necessary for graduation. The departments of instruction, for purposes of concentration, are grouped in three divisions:

Humanities: English, Fine Arts, German, Greek, Latin, Music, Philosophy, Romance Languages.

Social Science and History: Economics, Political Science, Education, History, Religion, Sociology.

Mathematics, Psychology, and Natural Science: Botany, Chemistry, Geology, Mathematics, Physics, Psychology, Zoology.

The forty-two semester hours in the division of concentration must be distributed as follows: eighteen to twenty-four semester hours in a major department and eighteen to twenty-four semester hours in at least two other departments of the same division with a minimum of six semester hours in each department. The minimum number of hours required by the department for a major shall not include any course open primarily to Freshmen. Introductory courses above the Freshman level are to be counted or not at the discretion of the department concerned.

For purposes of concentration certain courses listed in the same de-

partment are considered as being in different departments; namely, courses in French, Italian, and Spanish. Likewise, courses in economics and business administration are reckoned as being in different departments. Also, a student taking his major work in English literature may count courses in English composition, dramatic technique, or public speaking as part of his related work in the same division.

The twelve semester hours of restricted electives must be taken in one or both of the divisions not chosen for concentration, with a minimum of six semester hours in any one department of these divisions.

Attention is called here to a special regulation governing all groups leading to the Bachelor of Arts degree which limits the amount of work a student, other than an Honors student, may take in any one department to a maximum of thirty-six semester hours, with the proviso that a student whose principal work is in the Department of English, Economics, or Romance Languages is permitted to take additional work in subdepartments not to exceed a total in the department and the subdepartments of fifty-four semester hours.

The remaining hours necessary for graduation, after the minimum uniform requirements, the division of concentration, and the restricted electives are satisfied, are open as free electives.

On or before the date announced for the spring registration every Sophomore in the General Group should designate his division of concentration and his major department, and arrange under the guidance of an instructor in the major department his program of studies for the following year. He should obtain the instructor's written approval of all courses selected in the division of concentration before submitting his program to the Dean for final action. In like manner, upperclassmen will recheck their courses in their divisions of concentration each year with representatives of their major departments.

GROUP II

BUSINESS ADMINISTRATION

This group is designed for students who enter college with the purpose of engaging in some form of business after graduation. The required work consists of the minimum uniform requirements and the courses specified below.

The following arrangement of specified courses is recommended for students electing this group.

A student planning to take the examinations to qualify as a Certified Public Accountant may with the permission of the Department substitute courses in accounting (including Economics 184) for those courses in the following arrangement of courses which are marked with an asterisk.

Freshman Year: Economics 11* (this course is recommended but not required), Mathematics 3-4, or equivalent.

Sophomore Year: Economics 51-52, Economics 57-58, Political Science 61-62.

Junior and Senior Years: Economics 138*, Economics 143, Economics 144*, Economics 153, Economics 171-172 or Economics 105, 158, Economics 181-182, Economics 189*. Three hours of Economics courses shown in Economic Major Group I or II.

In addition to the courses specified above, a student in this group must elect nine semester hours from other courses in the Department.

GROUP III

RELIGION

This group is designed for students who plan to enter the ministry or other religious work as a vocation after graduation. The required work consists of the minimum uniform requirements and the courses specified below.

The following arrangement of specified courses is recommended for students electing this group:

Freshman Year: Religion 1-2, History 1-2.

Sophomore Year: Religion (6 hours), Economics 51-52 or Political Science 61-62, English Literature (6 hours).

Junior Year: Religion (6 hours), Psychology 91, English 151-152.

Senior Year: Religion* (6 hours), Sociology (6 hours), Philosophy (6 hours).

GROUP IV

PRE-MEDICAL

Students qualifying for college graduation in this group must complete, in addition to the minimum uniform requirements, forty-two semester hours in a division of concentration (subject to the regulations of the General Group), twelve semester hours of restricted electives in one or both of the other divisions with at least six semester hours in one department, and certain specific requirements as noted below. These specific requirements may count as part of the divisional concentration (if the division of concentration is the Natural Sciences) or they may count as restricted electives if another division of concentration is chosen. The foreign language should be German or French, preferably the former and including German 107-108.

The normal division of concentration for students electing this group is that of the Natural Sciences, but the student may elect any one of the other two divisions for his divisional concentration. In this case, it may be necessary for him to complete more than one hundred and twenty semester hours for his degree. If, however, the student chooses the Natural Sciences for his division of concentration, he is urged to take as much elective work as possible in the Divisions of the Social Studies and the Humanities.

Completion of English 1 and 2; Chemistry 1-2, 61-70, 151-152; Physics 51-52; and Zoology 1-2 will satisfy the minimum course recommendations of the Association of American Medical Colleges. Many medical schools advise the completion of additional courses in these and other subjects. The pre-medical student should ascertain the requirements of the particular medical school that he expects to attend.

* Not more than six semester hours of electives may be taken in the Department of Religion.

The following arrangement of the courses in science is suggested:

Freshman Year: Chemistry 1-2, Zoology 1-2, Mathematics 7-8, or equivalent.

Sophomore Year: Chemistry 61-70, Physics 51-52.

Junior Year: Chemistry 151-152.

GROUP V

COLLEGE TEACHING

This group is designed for students who plan to do work in a graduate school and teach in college. The required work consists of the minimum uniform requirements and the work specified below.

French and German through the second year of college work.* Since one of these languages may be taken through the third year of college work to satisfy the minimum uniform requirements, only the one not taken thus must be chosen to meet the conditions of this group.

Twenty-four semester hours of work in the major subject, exclusive of work in the subject offered primarily for Freshmen; twelve semester hours of work in related subjects approved by the student's Departmental Adviser; twelve semester hours in education, philosophy, and psychology, or in any one, not including any courses in secondary or elementary school methods.

Elective work, not to be taken in the major department, sufficient to complete the one hundred and twenty semester hours necessary for graduation.

At least twelve semester hours of the work taken in the Senior year must be in courses open only to Seniors and Graduates.

GROUP VI

PUBLIC SCHOOL TEACHING

This group is designed for two classes of students: (a) those who plan to teach in secondary schools; (b) those who plan to teach in elementary schools.

The required work consists of the minimum uniform requirements and the requirements listed under one of the classes below, according to whether the student expects to teach in a secondary school or in an elementary school.

CLASS A: SECONDARY SCHOOL TEACHING

Students in this class are required to take:

Eighteen semester hours in education of which three semester hours may be in general psychology. The work in education must include three semester hours in directed observation and practice teaching, three semester hours in educational psychology, and three semester hours in secondary education.

Six semester hours, three each, in materials and methods, in two fields of high-school teaching.

Work in the subject matter of the two subjects the student intends to

* Greek or Latin may be substituted for either French or German.

teach, sufficient to satisfy the minimum requirements as listed in the table below:

English, twenty-four semester hours, to include the six of required work in composition, six in English literature, and six in American literature.

French, eighteen semester hours, based on the usual two units for admission. German, Spanish, and Greek, the same requirements as for French.

History, eighteen semester hours, including six each in American, ancient and medieval, and modern European history, and six semester hours of economics or political science. It is recommended to prospective teachers of history and related subjects that they take elective work in sociology, geography, and at least a semester each in economics and political science.

Latin, eighteen semester hours based on the traditional four units for admission.

Mathematics, fifteen semester hours.

Music, thirty semester hours.

Physical Education, fifteen semester hours.

Science, thirty semester hours, including elementary courses in biology, chemistry, physics and geography or geology.

A student may prepare to teach only one high-school subject by taking a major of twenty-four semester hours in that subject (physical education excepted) in addition to the general required work in Class A, the required work in education and psychology, and the specifically required work in directed observation and materials and methods in the subject chosen. In physical education in the Woman's College the requirement for a major is thirty semester hours including three or four semester hours each of comparative anatomy and physiology.

It is recommended that the elective work, sufficient to complete the one hundred and twenty semester hours for graduation, be chosen in the two subjects the student is preparing to teach and in the Division of Social Science, provided the total amount of work taken in any department may not exceed the total allowed in Group I.

Students who are preparing to teach are advised to read carefully the certification rules of the state in which they intend to teach and to advise fully with the Dean before electing courses in subjects they are preparing to teach. They are further warned to take their professional courses in the order outlined by the Department of Education, reserving for their Senior year courses in materials and methods and in directed observation and practice teaching.

At least twelve semester hours of the work in the Senior year must be in courses open only to Seniors or to Seniors and Graduates.

CLASS B: ELEMENTARY SCHOOL TEACHING

Students in this class conform to the general requirements of Group I. Education is treated as a major department, and the Social Science Division as the division of concentration. In addition to the general requirements of Group I, the following specific requirements must be met:

	S.H.
English	3 or 6
American History and Government	6 or 9
Geography	6
Physical Education and Hygiene	6

These special requirements are reckoned in each case as a part of the appropriate division of concentration. The student in Class B should take Education 8 in the first semester of his Freshman year and advise with the Department as to an appropriate course for the spring semester. In all other particulars his course follows the General Group for the first year.

The following arrangement of courses is recommended for Freshmen entering the Teaching Group. The work for the following years will be arranged by the Department of Education.

FRESHMAN YEAR

	S.H.
English	6
Foreign Language	6
Science	8
History or elective*	6
Education or elective†	6
	<hr/> 32

GROUP VII

PRE-LEGAL

This group is designed for students who expect to study law after graduation. The required work consists of the minimum uniform requirements‡ and the courses specified below.

The following arrangement of specified courses is recommended:

Freshman Year: Introductory Course in History (1-2 if taken in the Freshman year or 51-52 if taken thereafter).

Sophomore Year: Economics 51-52, Political Science 61-62.

Junior Year: Economics 143, History 105-106, Psychology 91, and either English 151 or 152.

Senior Year: Six semester hours of Economics from courses approved for Seniors.

The electives should be chosen largely from the work offered by the following departments: Philosophy, Sociology, Economics, History, Psychology, and Political Science. The total work (required and elective) in any one department may not exceed thirty semester hours.

At least twelve semester hours of the electives in the Senior year must be Senior-Graduate courses.

GROUP VIII

SOCIAL SERVICE

This group is designed for students who plan after graduation to pursue professional studies in order to engage in practical social welfare

* History is an alternate with economics or political science in the minimum requirements when the student presents two units of history for admission.

† Students in Class B should take Education 8 the first semester and follow it with the course approved by the Department of Education the second semester; students in Class A follow the same plan or take any of the electives authorized for the General Group.

‡ When there is overlapping, the minimum uniform requirements are accepted as a part of the special requirements in this group.

work, such as family welfare, child welfare, public welfare, probation and parole, and similar forms of neighborhood and community work. The required work consists of the minimum uniform requirements and the courses specified below. Zoology is recommended for the required course in science.

The following arrangement of specified courses is recommended for students electing this group:

Freshman Year: History 1-2.

Sophomore Year: Economics 51-52, Sociology 91-92 or Sociology 101.

Junior Year: Philosophy (6 hours), Political Science (6 hours), Psychology 91, Sociology (6 hours).

Senior Year: Economics (6 hours), Psychology (6 hours), Sociology (6 hours).

The electives should be chosen mainly from history, economics, political science, education, sociology, philosophy, psychology, and religion.

The subjects required for the Junior and Senior years may be transposed according to the courses available in any particular year.

GROUP IX

HONORS

Purpose: Students who have revealed their desire and demonstrated their ability to do a type of intellectual work higher than that normally required for the liberal arts degree may apply to read for Honors during their last two college years. The aim of the Honors studies is to permit qualified undergraduates to attain a knowledge, both comprehensive and intensive, of a particular field, or fields, under conditions most stimulating to individual initiative and independence.

General Rules:

I. A student who has sixty-two semester hours of work to his credit and who has completed the minimum requirements for graduation may apply to read for Honors. A departmental committee may, however, permit students to take as much as twelve hours of the minimum uniform requirements in the Junior and Senior years provided that these are offset by the same number of hours in related subjects taken previously in courses not open primarily to Freshmen.

II. The Departmental Honors Program constitutes the work of the Honors student during the Junior and Senior years. This program shall be the equivalent of sixty semester hours of work.

III. The minimum amount of work that may be taken in the major department shall be the equivalent of twenty-four semester hours, and the maximum shall be the equivalent of thirty-six semester hours.

IV. The related work, which constitutes at least two-fifths of the Honors program, that is, the equivalent of twenty-four semester hours, must be distributed among not less than two departments, unless the departmental committee gives special permission for the student to take his related work in one department.

Departmental Honors: Honors courses are available to qualified students in the following departments: Botany, Chemistry, Economics, Education, English, French, German, Greek, History, Mathematics, Physics, Psychology, Religion, and Zoology.

An undergraduate wishing to qualify for Departmental Honors usually enters the General Group during the Freshman year. At the close of the Sophomore year he may apply to read for Honors in a particular department. The requirements for admission to candidacy for Honors vary in the different departments. The student should consult the special requirements set forth in the "Departmental Honors Program." The Departmental Committee determines the eligibility of the various applicants for Honors reading within the department.

Transfer students from colleges of approved standing may be admitted to candidacy for Honors provided they enter here as Sophomores with high records in their chosen field of work. They should consult by April 15 the Honors Adviser of the Department in which they are interested.

The work required of students in the Departmental Honors Group consists of (1) the minimum uniform requirements; (2) the program of Honors for the Junior and Senior years; and (3) elective work sufficient to complete the semester hours necessary for graduation.

Study in a Departmental Honors course always includes work in regular open courses. In both Junior and Senior years it may, and usually does, also include work under special instruction (seminarial or tutorial) and assignments of independent reading.

All candidates who complete satisfactorily the minimum uniform requirements, a Departmental Honors course, and elective work sufficient to earn the necessary hours for graduation will be recommended by the Departmental Committee to the Dean of the College for graduation with Honors.

For brief outlines of the various plans for Departmental Honors the student should see the section, "Departmental Honors Program," among the offerings of each department listed above. Students are also urged to consult the Honors Adviser of the department in which they are primarily interested. A list of these Advisers follows:

Botany: Miss Addoms
Chemistry: Mr. Vosburgh
Education: Mr. Holton
English: Mr. Irving
French: Mr. Webb
German: Mr. Vollmer

History: Mr. Laprade
Mathematics: Mr. Elliott
Physics: Mr. Hatley
Psychology: Mr. Zener
Religion: Mr. Myers
Zoology: Mr. Johnson

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE

The general regulations governing the requirements for the degree of Bachelor of Science are the same as those for the degree of Bachelor of Arts. Students selecting this group must complete the following course of study:

	S.H.
English 1-2	6
French and German (second college year)	12-24
Mathematics	6
Natural Science	8
Economics, History, or Political Science	6
Religion	6
Major and related work	48
Free electives to make a total of	120

English 1-2, 6 s.h.—A Freshman who satisfies the Department of English of his superior ability in English composition may substitute another English course for English 1-2. A Freshman whose scores in the placement tests are too low to justify his admission into English 1 is required to earn credit for English I before he may enter English 1.

French and German.—Bachelor of Science candidates must complete at least the second college year, or equivalent as determined by examination, of both French and German.

Mathematics, 6 s.h.—A candidate for the Bachelor of Science degree must complete Mathematics 7 and 8 or Mathematics 7 and 50 or the equivalent. Mathematics 50 is recommended for students who plan to take Mathematics 51-52. Mathematics 8 is recommended for those who plan not to take Mathematics 51-52. Placement tests in algebra are administered to all entering students planning to take courses in mathematics. Students found deficient in algebra must substitute Mathematics 1 and 2 for Mathematics 7.

Natural Science, 8 s.h.—This requirement can be satisfied by courses in one of the natural sciences, namely, Botany, Chemistry, Geology, Physics, and Zoology. The courses must include laboratory work, and may not be counted as part of the major or related work.

Economics, History, or Political Science, 6 s.h.—A student who does not present for entrance two acceptable units of history (exclusive of other social work) must take a course in history; otherwise he has his choice of Economics, History, or Political Science. The courses that will satisfy this requirement are listed under "Courses of Instruction."

Religion, 6 s.h.—The courses that will satisfy the requirement in Religion are listed in this bulletin under "Courses of Instruction."

Major and Related Work, 48 s.h.—Major and related work consists of forty-eight semester hours in the Division of Natural Sciences. This work must be selected from the Departments of Botany, Chemistry, Geology, Mathematics, Physics, Psychology, and Zoology. The major work consists of not less than twenty-four semester hours in one department, the choice of courses being subject to the approval of the department. The major work does not include courses primarily open to Freshmen. The related work is taken in at least two other departments and is selected subject to the approval of the major department. It may not include more than one course primarily open to Fresh-

men. A minimum of eight semester hours of the total of forty-eight must be in laboratory science. Further information concerning the requirements for the major and related work in the various departments will be found under "Courses of Instruction."

Free Electives.—In addition to the above, the student must elect sufficient courses to complete, with an average grade of "C," the one hundred and twenty semester hours necessary for graduation.

The total amount of work that a student, other than an Honors student, may take in any one department toward the Bachelor of Science degree is limited to a maximum of thirty-six semester hours.

No Senior may take for credit any course primarily open to Freshmen, and no Junior may take for credit more than one course primarily open to Freshmen. A list of these courses is published under "Courses of Instruction."

Not more than one course of six or eight semester hours of credit in final fulfillment of the requirements for the degree of Bachelor of Science in Duke University may be taken in another institution of approved standing, and this course must first be approved by the head of the department concerned and by the Dean.

On or before the date announced for the spring registration every Sophomore in this group should select his major department in the Division of Natural Sciences and arrange under the guidance of an instructor in the major department his program of studies for the following year. He should obtain the instructor's written approval of all courses selected in the division before submitting his program to the Dean for final action. In like manner, upperclassmen will check their courses in the division each year with representatives of their major department.

COMBINED ACADEMIC-PROFESSIONAL COURSES

The provision whereby a Senior may elect the work of the first year in a professional school of the University shall apply solely to eligible students in Trinity College or the Woman's College. The privilege of completing a combined course for the degree is conditioned upon admission to the professional school at the close of the Junior year. A student thus admitted registers as a Senior in the College and as a first-year student in the professional school.

ACADEMIC-LAW COMBINATION

A student who has completed, with an average grade of "C" or higher, ninety-two semester hours of undergraduate work, including the minimum uniform requirements for the degree of Bachelor of Arts and the work of the Junior year in the division of concentration may, with the approval of the Dean of the College, transfer to that school and be eligible for the degree of Bachelor of Arts from Duke University upon the satisfactory completion therein of the work of the first year.

It is understood that this provision shall apply solely to eligible Duke University undergraduates, and that not less than the full first-year's work of the Law School will be acceptable for credit towards the bachelor degree.

No single discipline or program of study can be described as the best preparation for the study of law. There are various methods of approach to legal study, and the students differ with respect to the undergraduate studies by which they profit most in preparing themselves for law school.

Completion of the undergraduate work necessary to qualify for the Academic-Law Combination does not insure admission to the Duke University School of Law, nor impose any restriction whatever upon its freedom in selecting students for admission.

The student who does not desire to avail himself of the Academic-Law Combination above set forth may, nevertheless, enter the Law School when he has satisfactorily completed two* years of academic study and has met the other entrance requirements of that school.

Students wishing information concerning admission to the School of Law are invited to consult with the Dean of that school.

ACADEMIC-FORESTRY COMBINATION

A student who has completed with an average grade of "C" or higher the program of study given below may, with the approval of the Dean of the College, transfer to the School of Forestry and be eligible for the degree of Bachelor of Science from Duke University upon the satisfactory completion of one year's work. It is understood that this provision

* Admission after two years of college work is granted during the period of the war.

shall apply solely to eligible Duke University undergraduates. The professional degree of Master of Forestry may be obtained on the satisfactory completion of an additional year in the School of Forestry.

The program of studies in preparation for admission to the School of Forestry is divided into four parts: (1) a group of studies required of all students; (2) courses required in a selected division of concentration; (3) additional elective courses sufficient to make a total of at least 92 semester hours of credit; and (4) summer field work in surveying and forest mensuration as described below.

The studies required of all students, of which the first four, together with six semester hours of a language, should ordinarily be taken in the Freshman year, are as follows:

	S.H.
Botany 1-2	8
Chemistry 1-2	8
English 1-2	6
Engineering Drawing 1-2	4
Modern Foreign Language*	12-18
Mathematics 7-8	6
Physics 1-2	8
Economics 51-52	6
Geology 51	4

At the end of the Freshman year each student shall select a division of concentration. One of the following programs of concentration is recommended:

Botany. Botany 51, 151, 156, one additional course in Botany, and Zoology 1. Chemistry. Chemistry 61, 70, and 151-152; and Botany 151.

Economics. Economics 57-58, two additional semester courses in economics, and Political Science 61-62.

A student who does not select one of the above programs must complete the work of the Junior year in a division of concentration.

Summer field work is required of all students in the School of Forestry. This program of 12 weeks, preferably to be taken upon completion of the Junior year, includes Civil Engineering S110 (Plane Surveying), 3 s.h.; Forestry S150 (Forest Surveying), 5 s.h.; and Forestry S151 (Forest Mensuration), 4 s.h.

Completion of the first three years of work toward the Bachelor of Science degree does not insure admission to the Duke University School of Forestry, nor impose any restriction whatever upon its freedom in selecting students for admission.

Students wishing information concerning admission to the School of Forestry are invited to consult with the Dean of that School.

* The requirement is the same as for the Degree of Bachelor of Science, except that Spanish may be substituted for French.

COURSES OF INSTRUCTION, TRINITY COLLEGE AND THE WOMAN'S COLLEGE

Note: Courses primarily for Freshmen are numbered from 1 to 49; those primarily for Sophomores are numbered from 50 to 99; those primarily for Juniors and Seniors from 100 to 199; those primarily for Seniors and Graduates from 200 to 299. The amount of credit for each course is given in semester hours following the description of the course.

Odd-numbered courses are offered in the fall semester, and even-numbered courses are offered in the spring semester. Double numbers indicate that the course is a year course and must normally be continued throughout the year if credit is received. A student must secure written permission from the instructor in order to receive credit for either semester of a year-course.

This is a condensed description of courses. For a full description see the Bulletin of Undergraduate Instruction

COURSES OPEN PRIMARILY TO FRESHMEN

Art 1-2	History 1-2
Botany 1-2	Latin 1-2-3, 4, 15, 16, 41, 42
Chemistry 1-2, 3-4	Mathematics 1, 2, 3-4, 7, 8, 9-10, 15
Economics 11	Music 11-12
Education 1, 4, 6, 8	Philosophy 48
English 1-2	Physics 1-2
French 1-2, 3-4	Political Science 21-22
German 1-2, 3-4	Religion 1-2
Greek 15	Spanish 1-2, 3-4
Health Education 41	Zoology 1-2

AESTHETICS, ART, AND MUSIC

PROFESSOR KATHARINE GILBERT, CHAIRMAN; ASSISTANT PROFESSOR SUNDERLAND,
DIRECTOR OF UNDERGRADUATE STUDIES IN ART; MISS AVERILL, SUPERVISOR
OF FRESHMAN INSTRUCTION IN ART; ASSISTANT PROFESSORS BRUINSMA,
HALL AND HULL; VISITING ASSISTANT PROFESSOR BONE;
MISS LEIGHTON, VISITING LECTURER IN ART

AESTHETICS

FOR SENIORS AND GRADUATES

201-202. The Philosophy of Art.—6 s.h.

[Not offered in 1945-46]

PROFESSOR GILBERT

213-214. History of Aesthetics.—6 s.h.

PROFESSOR GILBERT

ART

1-2. History of Art.—6 s.h.

MISS AVERILL

51-52. History of Art.—6 s.h.

MISS AVERILL

53-54. Theory of Representation and Design.—6 s.h.

MISS LEIGHTON

55-56. Laboratory in Design.—1 semester hour credit for 3 laboratory hours.

MISS LEIGHTON

94. (Old number, 93) American Art.—3 s.h.

MISS AVERILL

101. Mediaeval Architecture.—3 s.h.

ASSISTANT PROFESSOR SUNDERLAND

102. (Old number, 121) Mediaeval Painting and Sculpture.—3 s.h.

ASSISTANT PROFESSOR SUNDERLAND

103. Renaissance and Baroque Architecture: Italy.—3 s.h.
ASSISTANT PROFESSORS HALL AND SUNDERLAND
104. Renaissance and Baroque Architecture: Spain and the North.—Pre-requisite: 1-2 or 51. 3 s.h.
ASSISTANT PROFESSOR HALL
[Not offered in 1945-46]
105. European Architecture since 1700.—3 s.h.
[Not offered in 1945-46] ASSISTANT PROFESSORS HALL AND SUNDERLAND
106. Architecture of the Americas.—Prerequisite: 1-2 or 51. 3 s.h.
[Not offered in 1945-46] ASSISTANT PROFESSOR HALL
110. (Old number, 120) English Architecture.—Prerequisite: 1-2 or 51.
3 s.h.
[Not offered in 1945-46] ASSISTANT PROFESSOR HALL
123. (Old number, 107) Renaissance Painting and Sculpture: Italy.—3 s.h.
ASSISTANT PROFESSOR SUNDERLAND
124. (Old number, 109) Baroque Painting.—3 s.h.
ASSISTANT PROFESSOR SUNDERLAND
125. (Old number, 108) Renaissance Painting and Sculpture: The North.
—3 s.h.
[Not offered in 1945-46] ASSISTANT PROFESSOR SUNDERLAND
130. (Old number, 110) Painting since 1700.—3 s.h.
ASSISTANT PROFESSOR SUNDERLAND

COURSES OFFERED IN OTHER DEPARTMENTS ACCREDITED IN THIS DEPARTMENT

Greek 141-142. Greek Art.

Greek 247-248. Greek Archaeology.

Psychology 202. Psychology of Aesthetics.

DEPARTMENTAL MAJOR

Prerequisites: 1-2 or 51-52.*Major Requirements:* 53-54, and eighteen hours in courses chosen from the departmental offerings, or from courses in other departments accredited in this Department.

MUSIC

THEORY

- 11-12. Fundamentals of Music.—6 s.h. ASSISTANT PROFESSOR BONE
- 73-74. (Old number, 111-112) Harmony.—Prerequisite: Music 11-12. 6 s.h.
ASSISTANT PROFESSOR HULL
- 113-114. Polyphonic Composition.—Prerequisite: Music 11-12. 6 s.h.
[Not offered in 1945-46] ASSISTANT PROFESSOR HULL
- 115-116. (Old number, 71-72) Analysis of Form.—Prerequisite: Music 11-12. 6 s.h.
ASSISTANT PROFESSOR HULL
- 121-122. Orchestration and Conducting.—Prerequisite: Music 11-12 or consent of the instructor. 6 s.h.
ASSISTANT PROFESSOR HULL

HISTORY AND CRITICISM

- 81-82. Introductoin to Musical Literature.—6 s.h.
ASSISTANT PROFESSOR HULL
- 131-132. Symphonic Literature.—Prerequisite: Music 81-82 or 11-12, or consent of instructor. 6 s.h.
ASSISTANT PROFESSOR BONE
- 141-142. Choral Literature.—Prerequisite: Music 81-82 or 11-12, or consent of the instructor. 6 s.h.
ASSISTANT PROFESSOR BONE

MUSIC EDUCATION

101. Vocal Methods.—Prerequisite: Music 11-12. 3 s.h.

ASSISTANT PROFESSOR BONE

102. Instrumental Methods.—Prerequisite: Music 11-12. 3 s.h.

ASSISTANT PROFESSOR BONE

151-152. Fundamentals of Music for Education Students.—6 s.h.

ASSISTANT PROFESSOR BONE

APPLIED MUSIC

Instruction in organ, piano, violin, viola, woodwind and brass instruments, and voice is available to Duke University students. Membership in the Chapel Choir, the Glee Club, Band, and Symphony Orchestra is open to those who can qualify.

Organ

Piano

Violin and Viola.....Mr. Robert Hull

Vocal Ensembles.....Mr. and Mrs. J. Foster Barnes

Orchestra and Chamber Music.....Mr. Robert Hull

Woodwind and Brass Instruments.....Mr. Allan Bone

Band.....Mr. Allan Bone

DEPARTMENTAL MAJOR

In Music Theory:

Prerequisite: Music 11-12.

Major Requirements: Music 73-74, 81-82, 115-116, and six semester hours of general music electives.

In Music History:

Prerequisite: Music 11-12.

Major Requirements: Music 81-82, 131-132, 141-142, and six semester hours of general music electives.

In Music Education:

The Department of Music has set up the following minimum requirements within the thirty hours of credit required by the North Carolina Department of Public Instruction for the Music Teaching Certificate: Music 11-12, 6 s.h.; Music 81-82, 6 s.h.; Music 101 or 102, 3 s.h.; Music 73-74 or 113-114, 6 s.h.; music electives, 9 s.h.

Each candidate must demonstrate his ability to play simple accompaniments and hymns at sight, and must be a member in good standing of at least one University musical organization (Band, Orchestra, Choir, or Glee Club) for a minimum of two years.

The major requirements above are in addition to the professional requirements of the North Carolina Department of Public Instruction which are common to all certificates. This certificate qualifies a person for both high-school and elementary school teaching.

For required Education courses refer to the Department of Education.

BOTANY

PROFESSOR BLOMQUIST, CHAIRMAN; ASSOCIATE PROFESSOR OOSTING, DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR ANDERSON, SUPERVISOR OF FRESHMAN INSTRUCTION (WOMAN'S COLLEGE); PROFESSORS BEAL, KRAMER, AND WOLF; ASSOCIATE PROFESSOR HARRAR; ASSISTANT PROFESSOR PERRY; AND ASSISTANTS

1. General Botany.—4 s.h.

STAFF

2. General Botany.—Prerequisite: Botany 1. 4 s.h.

STAFF

51. Culture and Propagation of Plants.—Prerequisite: one year of botany. 4 s.h.

ASSOCIATE PROFESSOR ADDOMS

52. Plant Identification.—Prerequisite: one year of botany. 4 s.h.
PROFESSOR BLOMQUIST
55. Morphology and Anatomy of Vascular Plants.—Prerequisite: one year of botany. 4 s.h.
ASSOCIATE PROFESSOR OOSTING
101. Principles of Heredity.—Prerequisite: one (high-school or college) course in biology, botany, or zoology. High-school or college algebra recommended. 3 or 4 s.h.
ASSISTANT PROFESSOR PERRY
103. General Bacteriology.—Prerequisite: one year of botany or zoology, or equivalent. 4 s.h.
PROFESSOR WOLF
104. The Structure and Identification of Lower Plants.—Prerequisite: one year of botany. 4 s.h.
PROFESSOR BLOMQUIST
151. Introductory Plant Physiology.—Prerequisite: Botany 1, 2 or equivalent; one year of chemistry recommended. 4 s.h.
PROFESSOR KRAMER
156. Plant Ecology.—Prerequisites: Botany 1, 2 and 52, or equivalent. 4 s.h.
ASSOCIATE PROFESSOR OOSTING
202. Genetics.—Prerequisites: one year of botany or zoology, or equivalent, and college algebra. 4 s.h.
ASSISTANT PROFESSOR PERRY
203. Plant Cytology.—Prerequisite: one year of botany. 4 s.h.
[Not offered in 1945-46] ASSISTANT PROFESSOR ANDERSON
204. Advanced Plant Anatomy.—Prerequisite: Botany 55 or equivalent. 4 s.h.
ASSOCIATE PROFESSOR ADDOMS
216. Botanical Microtechnique.—Prerequisite: two semesters of botany. 4 s.h.
ASSOCIATE PROFESSOR ADDOMS
221. Structure and Classification of Fungi.—Prerequisite: two semesters of botany. 4 s.h.
PROFESSOR WOLF
- 225-226. Special Problems.
- a. Bacteriology, Mycology, and Plant Pathology. PROFESSOR WOLF
- b. Cytology. ASSISTANT PROFESSOR ANDERSON
[Not offered in 1945-46]
- c. Ecology. ASSOCIATE PROFESSOR OOSTING
- d. Genetics. ASSISTANT PROFESSOR PERRY
- e. Morphology and Anatomy of Higher Groups.
ASSOCIATE PROFESSORS ADDOMS AND OOSTING
- f. Morphology and Taxonomy of Lower Groups. PROFESSOR BLOMQUIST
- g. Physiology. PROFESSOR KRAMER; ASSOCIATE PROFESSOR ADDOMS
- h. Plant Microchemistry. ASSOCIATE PROFESSOR ADDOMS
- i. Taxonomy of Higher Groups. PROFESSOR BLOMQUIST
252. Advanced Plant Physiology.—Prerequisite: Botany 151 or equivalent; organic chemistry recommended. 4 s.h.
PROFESSOR KRAMER
255. Advanced Taxonomy.—Prerequisite: two years of botany, including Botany 52 or equivalent. 4 s.h.
PROFESSOR BLOMQUIST
256. Field Ecology.—Prerequisites: Botany 1, 2, and 52 or equivalent. 4 s.h.
ASSOCIATE PROFESSOR OOSTING

FOREST BOTANY

224. Forest Pathology.—Prerequisites: Botany 1, 2. 3 or 4 s.h.
PROFESSOR WOLF

253-254. **Dendrology.**—Prerequisite: one year of botany. 4 s.h.

PROFESSOR BEAL

Related courses which may be counted toward a major in botany. Zoology 110. Introduction to Genetics. 2 s.h. ASSISTANT PROFESSOR JOHNSON

NAVY V-12 COURSES

*B1 and B2. **Biology I and Biology II.**—Two lecture-recitation periods and two laboratory periods per week. 8 s.h.

DEPARTMENTAL MAJOR

Prerequisites: Botany 1 and 2.

Major Requirements: A minimum of twenty-one hours of work including courses 52, 55, and 104. The remaining hours may be selected from any other courses in the Department for which the student is eligible, subject to the approval of the Departmental Adviser.

DEPARTMENTAL HONORS PROGRAM

I. *Prerequisites:* Botany 1-2. A year course in each of three other sciences acceptable to the Departmental Committee. Some of these may be taken concurrently with the Honors work.

II. Honors Work:

a. Botany.

1. Scheduled courses. At least five courses (18-20 semester hours) beyond Botany 1-2.
2. Reading courses and problems, chiefly in the Senior year. Nine semester hours. In addition to scheduled courses, each Honors student will take reading courses in such fields as History of Botany and Theories of Biology; or he may take reading courses in special fields; or he may undertake a special problem; or he may carry on both reading and a problem. This work will count as nine semester hours and will extend through a year at least. The student will report to his Adviser regularly for conference on this work. He may be asked to prepare written reports on the reading courses, and he must make a report on his problem.

b. Philosophy—Six semester hours.

c. Electives in Botany or in other departments, subject to the approval of the Departmental Committee.

III. *General Honors Examination:* In the spring semester of the Senior year, each student must pass a general examination on the entire field of his Honors work. The Examining Committee consists of the Departmental Committee and such Advisers as have been concerned with his Honors work. The student must present a written report upon his problem and such written reports upon his reading as may be required, before he is permitted to take the general examination.

CHEMISTRY

PROFESSOR GROSS, CHAIRMAN; PROFESSOR VOSBURGH, DIRECTOR OF UNDERGRADUATE STUDIES; ASSOCIATE PROFESSOR HILL, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS BIGELOW, LONDON, AND WILSON; ASSOCIATE PROFESSORS HAUSER, HOBBS, AND SAYLOR; ASSISTANT PROFESSORS BRADSHER, AND BROWN; DR. BRESLOW; MR. MANES; AND ASSISTANTS

1-2. General Inorganic Chemistry.—8 s.h.

ASSOCIATE PROFESSOR HILL WITH PROFESSOR WILSON; ASSOCIATE PROFESSORS HOBBS AND SAYLOR; ASSISTANT PROFESSORS BRADSHER AND BROWN; DR. BRESLOW; MR. MANES; AND ASSISTANTS

* B1 and B2 may be substituted for Botany 1-2 or Zoology 1-2.

61. Qualitative Analysis.—Prerequisites: Chemistry 1-2 or 3-4 and algebra.
4 s.h. ASSOCIATE PROFESSORS SAYLOR AND HOBBS; PROFESSOR
VOSBURGH; AND ASSISTANTS
70. Quantitative Analysis.—Prerequisite: Chemistry 61. Analytic geometry
and college physics are desirable but not required. 4 s.h.
ASSOCIATE PROFESSORS SAYLOR AND HOBBS; PROFESSOR
VOSBURGH; AND ASSISTANTS
- 131-132. Advanced Quantitative Analysis.—Prerequisites: Chemistry 70
and Physics 51-52 or equivalent. 4 s.h.
PROFESSOR VOSBURGH AND ASSOCIATE PROFESSOR SAYLOR
135. Theory of Analytical Chemistry.—Prerequisites: Chemistry 70 and
Chemistry 131; the latter may be taken concurrently. 1 s.h.
PROFESSOR VOSBURGH
- 151-152. Organic Chemistry.—Prerequisites: Chemistry 61 and 70. Course
151 is prerequisite for 152. 8 s.h.
PROFESSOR BIGELOW; ASSOCIATE PROFESSOR HAUSER; ASSISTANT
PROFESSORS BRADSHER AND BROWN; AND ASSISTANTS
- 153-154. Intermediate Chemistry Laboratory.—2 or 4 s.h.
PROFESSOR BIGELOW AND OTHER MEMBERS OF THE STAFF
- 155-156. Organic Chemistry.—Prerequisites: Chemistry 61 and 70. 6 s.h.
PROFESSOR BIGELOW; ASSOCIATE PROFESSOR HAUSER; ASSISTANT
PROFESSORS BRADSHER AND BROWN; AND ASSISTANTS
[Not offered in 1945-46]
- 173-174. Honors Seminar.—2 s.h. PROFESSOR VOSBURGH
[Not offered in 1945-46]
- 215-216. Advanced Inorganic Chemistry.—Prerequisites: Chemistry 70 and
151-152, Chemistry 261-262, Physics 59-60 or 213-214, and ability to read Ger-
man are desirable. 6 s.h.
PROFESSOR VOSBURGH AND ASSOCIATE PROFESSOR HILL
- 233-234. Instrumental Analysis.—Prerequisites: Chemistry 70 and 261-262;
the latter may be taken concurrently. 4 s.h.
ASSOCIATE PROFESSOR HOBBS; PROFESSOR VOSBURGH;
AND ASSOCIATE PROFESSOR SAYLOR
236. Theory of Analytical Chemistry.—Prerequisites: Chemistry 70 and
261-262. 1 s.h. PROFESSOR VOSBURGH
241. Physiological Chemistry.—Prerequisites: Chemistry 70 and 151-152.
4 s.h. PROFESSOR WILSON AND ASSISTANT
242. Metabolism.—4 s.h. PROFESSOR WILSON AND ASSISTANT
- 253-254. Advanced Organic Chemistry.—Prerequisites: Chemistry 151-152
or equivalent and a reading knowledge of German. 6 or 8 s.h.
PROFESSOR BIGELOW; ASSOCIATE PROFESSOR HAUSER;
AND ASSISTANT PROFESSOR BROWN
- 261-262. Physical Chemistry.—Prerequisites: Chemistry 70, 151-152, Phys-
ics 1-2, and Mathematics 51-51 or equivalent. 6 s.h.
PROFESSOR GROSS; ASSOCIATE PROFESSORS HOBBS AND SAYLOR
- 265-266. Chemical Physics. Statistical Theory, Principles and Applica-
tions.—8 s.h. PROFESSOR LONDON
- 267-268. Chemical Physics. Theoretical Aspects of Atomic and Molecular
Structure.—8 s.h. PROFESSOR LONDON
271. Introduction to Research.—1 s.h.
PROFESSORS BIGELOW, GROSS, AND VOSBURGH

273-274. Seminar.—2 s.h.

PROFESSORS BIGELOW, GROSS AND VOSBURGH; ASSOCIATE PROFESSORS
HAUSER, HILL, HOBBS, AND SAYLOR; ASSISTANT PROFESSORS
BRADSHER AND BROWN

275-276.—3 or 6 s.h.

PROFESSORS BIGELOW, GROSS, LONDON, VOSBURGH AND WILSON;
ASSOCIATE PROFESSORS HAUSER, HILL, HOBBS, AND SAYLOR;
ASSISTANT PROFESSORS BRADSHER AND BROWN

NAVY V-12 COURSES

C1-C2. General Inorganic Chemistry.—May be substituted for Chemistry 1-2. 8 s.h.

C1a-C2a and C6. General Inorganic Chemistry and Engineering Materials.—May be substituted for Chemistry 1-2. 8 s.h.

C3. Quantative Analysis.—May be substituted for Chemistry 70. Prerequisite: Chemistry 2 or C2. 4 s.h.

C4-C5. Organic Chemistry.—May be substituted for Chemistry 151-152. Prerequisite: Chemistry 70 or C3. 8 s.h.

DEPARTMENTAL MAJOR

A. For the degree of A.B.

Prerequisites: Chemistry 1-2, Mathematics 7-8 (or equivalent).

Major Requirements: Chemistry 61-70, 151-152 and 261-262. With the permission of the Department other chemistry courses giving a total of not less than 6 s.h. credit may be substituted for Chemistry 261-262.

B. For the degree of B.S.

Prerequisites: Chemistry 1-2, Mathematics 7-50 (or equivalent).

Major Requirements: Chemistry 61-70, 131-132, 151-152, 153-154, 261-262. The required work in the Science Division must include Mathematics 51-52 and Physics 51-52 (or equivalent).

DEPARTMENTAL HONORS PROGRAM*

Prerequisites: Chemistry 61-70; Mathematics, 6 s.h., and Physics 51-52 or equivalent.

Honors Program: Chemistry 131-132, 151-152, 153-154, 173-174, 261-262, and 275-276; Mathematics through integral calculus; Physics, Botany, Geology, or Zoology, 6 s.h.; electives, subject to the approval of the Departmental Honors Committee, 20 s.h. (or enough to satisfy the requirements for graduation).

Chemistry 153-154 is a special laboratory course in which there is individual attention to and supervision of the work of each student.

Chemistry 173-174 is a seminar primarily for Honors students of both junior and Senior years. The purpose is to give practice in the use of chemical literature and the oral presentation of assigned topics.

In Chemistry 275-276 an experimental research project is carried out under the direction of a member of the Staff, the object being to gain acquaintance with the aims and methods of research. A written report on the research is required.

A general examination in chemistry is given at the end of both Junior and Senior years.

* Not offered in 1945-46.

ECONOMICS AND BUSINESS ADMINISTRATION

PROFESSOR HOOVER, CHAIRMAN; PROFESSOR DE VYVER, DIRECTOR OF UNDERGRADUATE STUDIES; PROFESSORS BLACK, RATCHFORD, SPENGLER AND VON BECKERATH;
 ASSOCIATE PROFESSORS EITEMAN, LONDON, LEMERT, LESTER, SMITH,
 AND WELFLING; ASSISTANT PROFESSORS DELAPLANE, SHIELDS,
 AND SPRINGER; DRs. BERRY AND VAN VOORHIS

ECONOMICS

- 51-52. Principles of Economics.—6 s.h.
 PROFESSORS DE VYVER AND SPENGLER; ASSOCIATE PROFESSORS
 EITEMAN, LONDON, AND SMITH
103. Transportation.—3 s.h. ASSOCIATE PROFESSOR LONDON
107. Conservation.—3 s.h. ASSOCIATE PROFESSOR LEMERT
132. The Economic History of the United States.—3 s.h.
 ASSOCIATE PROFESSOR SMITH
138. Business Statistics.—3 s.h. ASSOCIATE PROFESSOR SMITH
139. Advanced Business Statistics.—Prerequisite: Economics 138 or the
 equivalent. 3 s.h. ASSOCIATE PROFESSOR SMITH
153. Money Credit and Banking.—3 s.h.
 ASSOCIATE PROFESSOR LESTER AND PROFESSOR RATCHFORD
154. Advanced Money and Banking.—3 s.h.
 ASSOCIATE PROFESSOR LESTER AND PROFESSOR RATCHFORD
155. Labor Problems.—3 s.h. PROFESSOR DE VYVER
169. Economics of Consumption.—3 s.h. ASSOCIATE PROFESSOR SMITH
186. Latin-American Economics.—3 s.h. ASSOCIATE PROFESSOR SMITH
187. Public Finance.—3 s.h. PROFESSOR RATCHFORD
189. Business and Government.—3 s.h.
199. Economic Analysis.—3 s.h.
215. Economic Systems.—3 s.h. PROFESSOR HOOVER
216. Economic Functions of the State.—3 s.h. PROFESSOR HOOVER
217. Population, Resources, and Standards of Living.—3 s.h.
 PROFESSOR SPENGLER
218. Business Cycles.—3 s.h. ASSOCIATE PROFESSOR LESTER
230. Public Debts in the United States.—Prerequisite: Economics 187 or
 consent of instructor. 3 s.h. PROFESSOR RATCHFORD
231. The Economic History of Modern Europe.—3 s.h.
 ASSOCIATE PROFESSOR SMITH
233. State and Local Finance.—Prerequisite: Economics 187 or consent of
 instructor. 3 s.h. PROFESSOR RATCHFORD
234. Federal Finance.—Prerequisite: Economics 187 or consent of instruc-
 tor. 3 s.h. PROFESSOR RATCHFORD
- 237-238. Statistical Methods.—Prerequisite: Economics 138 or consent of
 the instructor. 6 s.h.
- 241-242. Value and Distribution.—6 s.h. PROFESSOR SPENGLER
245. Problems of Modern Industrialism.—3 s.h.
 PROFESSOR VON BECKERATH

256. Labor Legislation.—Prerequisite: Economics 155, or with the consent of the instructor. 3 s.h. PROFESSOR DE VYVER

260. Social Insurance.—3 s.h. PROFESSOR DE VYVER

265. International Trade and Finance.—3 s.h.
PROFESSOR VON BECKERATH AND ASSOCIATE PROFESSOR LESTER

268. Competitive Versus Monopolistic Enterprise.—3 s.h.
PROFESSOR VON BECKERATH

280. Advanced Economic Problems.—3 s.h. PROFESSOR RATCHFORD

BUSINESS ADMINISTRATION

A. ACCOUNTANCY

57-58. Principles of Accounting.—6 s.h.
PROFESSOR BLACK; ASSISTANT PROFESSOR SHIELDS

171-172. Advanced Accounting.—6 s.h.
PROFESSOR BLACK; ASSISTANT PROFESSOR SHIELDS

173-174. Auditing, Theory and Practice.—Prerequisite: Economics 171-172 and permission of the instructor. 6 s.h. ASSISTANT PROFESSOR SHIELDS

175-176. C. P. A. Review.—Prerequisite: Economics 171-172 and permission of the instructor. 6 s.h. PROFESSOR BLACK

177. Income Tax Accounting.—Prerequisite: Economics 171-172 or permission of the instructor. 3 s.h. ASSISTANT PROFESSOR SHIELDS

178. Accounting Systems.—Prerequisite: Economics 171-172 or permission of the instructor. 3 s.h. ASSISTANT PROFESSOR SHIELDS

180. Government Accounting.—Prerequisite: Economics 57-58 and permission of the instructor. 3 s.h. ASSISTANT PROFESSOR SHIELDS

275-276. Advanced Industrial Accounting and Management.—Prerequisite: Economics 171-172 or permission of the instructor. 6 s.h.
PROFESSOR BLACK; ASSISTANT PROFESSOR SHIELDS

B. COMMERCE AND INDUSTRY

11. Economic Geography.—3 s.h. ASSOCIATE PROFESSOR LEMERT

105. Industrial Management.—3 s.h.
PROFESSOR BLACK; ASSOCIATE PROFESSOR LONDON

109. The Economic Geography of Latin America.—3 s.h.
ASSOCIATE PROFESSOR LEMERT

115. Economic Geography.—3 s.h. ASSOCIATE PROFESSOR LEMERT

116. Economic Geography and Industrial Organization.—Prerequisite: Economics 115. 3 s.h. ASSOCIATE PROFESSOR LEMERT

118. Economic Geography of the South.—3 s.h.
ASSOCIATE PROFESSOR LEMERT

120. Economic Geography of the Pacific.—3 s.h.
ASSOCIATE PROFESSOR LEMERT

143. Corporation Finance.—3 s.h.
ASSOCIATE PROFESSOR EITEMAN AND OTHERS

144. Investments.—Prerequisite: Economics 57-58 and 143. 3 s.h.
ASSOCIATE PROFESSOR EITEMAN

152. Global Geography.—3 s.h. ASSOCIATE PROFESSOR EITEMAN

158. Insurance.—3 s.h. ASSOCIATE PROFESSOR LEMERT

168. Marketing.—3 s.h. ASSOCIATE PROFESSOR LONDON

181-182. Business Law.—6 s.h.

ASSOCIATE PROFESSOR EITEMAN; PROFESSOR BLACK

184. Commercial Law for Accountants.—3 s.h.

PROFESSOR BLACK

188. Personnel Management.—Prerequisite: Economics 155. 3 s.h.

PROFESSOR DE VYVER

NAVY V-12 COURSES

BA1-2. Principles of Economics I and II.—May be substituted for Economics 51-52. 6 s.h.

BA3. Money and Banking.—May be substituted for Economics 153. 3 s.h.

BA4. Transportation.—May be substituted for Economics 103. 3 s.h.

BA5. Accounting I.—May be substituted for Economics 57. 3 s.h.

BA6. Accounting II.—May be substituted for Economics 58. 3 s.h.

BA7. Statistics I.—May be substituted for Economics 138. 3 s.h.

BA10-11. Business Finance.—Four lecture-recitation periods per week for two terms. May be substituted for Economics 143. 8 s.h.

BA12-13. Business Organization and Management.—May be substituted for Economics 105. 8 s.h.

BA15-16. Business Law.—May be substituted for Economics 181-182. 6 s.h.

BA17. Elementary Cost Accounting.—May be substituted for Economics 275. 4 s.h.

BA18. Accounting and Statistical Controls.—3 s.h.

BA19. Marketing.—May be substituted for Economics 168. 3 s.h.

DEPARTMENTAL MAJOR

A major in economics requires the following election of courses:

A

Economics 51-52. Principles of Economics.

Economics 138. Business Statistics.

Economics 153. Money and Banking.

B

A minimum of two courses from *each* of the following groups:

Group I

Economics 154. Advanced Money and Banking.

Economics 187. Public Finance.

Economics 199. Economic Analysis.

Economics 217. Business Cycles.

Economics 265. International Trade and Finance.

Group II

Economics 132. Economic History of the United States.

Economics 155. Labor Problems.

Economics 189. Government and Business.

Economics 215. Economic Systems.

Economics 218. Population, Resources and Standards of Living.

C

Additional hours in Junior and Senior courses in Economics to total 30 hours (including Economics 51-52).

D

Related work of at least six hours selected from the following courses:

Economics 57-58. Principles of Accounting.

Economics 143. Corporation Finance.

Economics 152. Global Geography.

Economics 158. Insurance.

Economics 168. Marketing.

Note: Students who take Economics 51-52 in their Freshman year may, in their Sophomore year, enroll in courses in the department ordinarily open only to Juniors.

EDUCATION

PROFESSOR HOLTON, CHAIRMAN; PROFESSOR PROCTOR, DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR EASLEY, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS BROWNELL, CARR, AND CHILDS; ASSOCIATE PROFESSOR SCATES; VISITING ASSISTANT PROFESSOR VAN ALSTYNE; ASSISTANT PROFESSOR WATSON; AND ASSISTANTS

1. Orientation Course in Study and Study Habits.—3 s.h. STAFF

6. A Study of Reading Skills.—3 s.h.
VISITING ASSISTANT PROFESSOR VAN ALSTYNE

8. The Learning Process.—3 s.h.
VISITING ASSISTANT PROFESSOR VAN ALSTYNE

54. Introductory Course in History of Education.—3 s.h.
PROFESSORS HOLTON AND CARR; AND ASSOCIATE PROFESSOR SCATES

68. Mental Hygiene of the School Child.—3 s.h.
VISITING ASSISTANT PROFESSOR VAN ALSTYNE

84. Social Foundations of Education.—3 s.h.
PROFESSORS HOLTON AND PROCTOR

Note: Courses 84, 88, 101, and 110 constitute a sequence of twelve required hours of the work in Education in Group VI of the groups of studies leading to the Bachelor's degree. Students should confer with the undergraduate directors of the departments as to working this sequence into their schedules.

88. Psychological Foundations of Modern Education.—3 s.h.
PROFESSOR BROWNELL AND VISITING ASSISTANT
PROFESSOR VAN ALSTYNE

See note following course 84.

101. Introduction to Curriculum and Technique of Teaching.—3 s.h.
PROFESSOR CARR

See note following course 84.

105. Introduction to Educational Sociology.—3 s.h. PROFESSOR CHILDS

110. Introduction to Measurement and Research in Education.—3 s.h.
ASSOCIATE PROFESSOR SCATES

See note following course 84.

112. Methods of Teaching and Presentation of Subject Matter in the Primary Schools.—Prerequisite: course 101. 4 s.h. PROFESSOR CARR

A. Integrated Art in the Public School. MRS. MASON
[Not offered in 1945-46, unless as many as eight students enroll.]

- B. Industrial Art in the Public School.** Mrs. MASON
[Not offered in 1945-46, unless as many as eight students enroll.]
- 115-116. Secondary Education: Principles and Practice.—6 or 8 s.h.**
PROFESSOR CHILDS AND ASSISTANTS
- 118. Educational Implications of Genetic Psychology.—Prerequisite:** three semester hours in psychology or educational psychology. 3 s.h.
PROFESSOR BROWNELL
- 122. Methods of Teaching and Presentation of Subject Matter in the Grammar Grades.—Prerequisite:** course 101. 4 s.h. PROFESSOR CARR
- 128. Tests and Measurements in Personnel Work.—3 s.h.**
ASSISTANT PROFESSOR WATSON
- 131. Observation and Practice Teaching.—1 s.h.** PROFESSOR CARR
- 132. Materials and Methods in Health Education.—3 s.h.**
ASSISTANT PROFESSOR AYCOCK
- 136. The Teaching of High-School English.—3 s.h.**
ASSISTANT PROFESSOR JORDAN
- 142. Children's Literature.—3 s.h.** PROFESSOR CARR
- 170. The Social and Economic Position of Women.—2 s.h.** MRS. SMITH
- 176. Materials and Methods in High-School Science.—Prerequisite:** at least eighteen hours of science in college. 3 s.h.
ASSOCIATE PROFESSOR SCATES
- 185. The Teaching of Religion and Ethics.—3 s.h.**
ASSISTANT PROFESSOR CRUM
- 200. Introduction to the Philosophy of Education.—3 s.h.**
PROFESSOR HOLTON
- 203. Principles of School Administration.—Prerequisite:** six semester hours of courses 103 and 88 or their equivalent. 3 s.h. (E)
[Not offered in 1945-46] PROFESSOR PROCTOR
- 205. Curriculum Problems in Secondary Education.—3 s.h.**
[Not offered in 1945-46] PROFESSOR CHILDS
- 206. Sociological Foundations of the Secondary School Subjects.—Prerequisite:** general sociology or approved work in education, including course 105. 3 s.h. PROFESSOR CHILDS
- 207. Technique of Teaching.—3 s.h.** PROFESSOR CARR
[Not offered in 1945-46]
- 208A. Mental Tests and Applications.—Prerequisite:** course 258 or six semester hours of other work in educational psychology or psychology. 3 s.h.
VISITING ASSISTANT PROFESSOR VAN ALSTYNE
- 208B. Mental Tests and Applications.—2 s.h.**
(E) VISITING ASSISTANT PROFESSOR VAN ALSTYNE
- 209. Statistical Methods Applied to Education.—2 s.h.**
ASSOCIATE PROFESSOR SCATES
- 212. Psychology of the Elementary School Subjects.—3 s.h.**
PROFESSOR CARR
- 213. Problems in the Organization and Administration of Elementary School.—3 s.h.** PROFESSOR PROCTOR
- 214. History of Education in the United States.—3 s.h.**
[Not offered in 1945-46] PROFESSOR HOLTON

215. Educational and Vocational Guidance.—Prerequisite: twelve semester hours in the Department, including course 105 or course 206. 3 s.h.
[Not offered in 1945-46] PROFESSOR CHILDS
216. Psychological Principles of Secondary Education.—3 s.h.
PROFESSOR CHILDS
218. Educational Implications of Genetic Psychology.—Prerequisite: six semester hours of psychology or educational psychology. 3 s.h.
[Not offered in 1945-46] PROFESSOR BROWNELL
219. Experimental Education.—3 s.h. PROFESSOR BROWNELL
222. The Curriculum and Materials of the Elementary Grades.—3 s.h.
PROFESSOR CARR
225. The Teaching of History and the Social Studies.—3 s.h.
[Not offered in 1945-46] ASSOCIATE PROFESSOR MANCHESTER
227. The Psychology of Learning: Problems.—3 s.h.
[Not offered in 1945-46] ASSISTANT PROFESSOR EASLEY
228. The Psychology of Learning: Theoretical and Experimental.—Prerequisite: course 227 or its equivalent. 3 s.h.
[Not offered in 1945-46] ASSISTANT PROFESSOR EASLEY
232. Elementary School Supervision.—3 s.h. PROFESSOR CARR
233. Administrative Pupil-Accounting.—3 s.h. PROFESSOR PROCTOR
234. Secondary School Organization and Administration.—3 s.h.
PROFESSOR PROCTOR
237. Investigations in Reading.—3 s.h. PROFESSOR CARR
244. Studies in the Historical Development of Public School Administration.—3 s.h.
[Not offered in 1945-46] PROFESSOR HOLTON
246. The Teaching of Mathematics.—3 s.h. PROFESSOR RANKIN
[Not offered unless enrollment justifies.]
247. Investigations in Arithmetic.—3 s.h. PROFESSOR BROWNELL
253. Legal Phases of School Administration.—3 s.h. PROFESSOR HOLTON
[Not offered in 1945-46]
254. History of Secondary Education in the United States.—3 s.h.
[Not offered in 1945-46] PROFESSOR PROCTOR
258. Educational Measurements.—Prerequisite: twelve semester hours in the Department, including a course in educational psychology. 3 s.h.
ASSOCIATE PROFESSOR SCATES
264. Recent Movements in American Education.—3 s.h.
[Not offered in 1945-46] PROFESSOR HOLTON
266. The Teaching of High-School French.—3 s.h. PROFESSOR WEBB
294. Comparative Education: Recent Movements in European Educational Systems.—3 s.h.
[Not offered in 1945-46] PROFESSOR CARR

DEPARTMENTAL MAJOR

A major in the Department of Education consists of twenty-four semester hours of work above the Freshman year, not including any work listed as primarily for Freshmen, and including at least six semester hours of courses limited to Seniors or to Seniors and Graduates. Before graduation, students who major in the Department must have credit for at least one course in educational psychology, such as 8, 68, or 88, and one course in history and

philosophy of education, or in educational sociology. The remainder of their work may be elected from courses listed for Sophomores, Juniors, and Seniors, provided at least six semester hours of the course work are taken from courses listed for Seniors and Graduates, and provided that not more than six semester hours may be of courses numbered below 100.

DEPARTMENTAL HONORS PROGRAM

Students may become candidates for Honors in education who have passed with grade of "B" or better in their Freshman or Sophomore years six semester hours of education.

Candidates for Honors in education are required to take in the Junior year twelve semester hours in the Department and to make an average of "B" or better on this work. The remaining work in the Junior year will be chosen from related work and other electives with the consent of the Departmental Committee on Honors. In the Senior year, in addition to the equivalent of twelve semester hours of supervised reading in education, the candidate must elect with the approval of the Departmental Committee on Honors six semester hours of work from the courses in education offered in the 200 group, on which he is required to make a grade of "B" or better and twelve semester hours of related or other elective work.

Of the supervised reading, which shall be done under the immediate supervision of members of the Departmental Committee on Honors, the equivalent of six semester hours shall be devoted to the History of Education; the remaining six semester hours shall be devoted to Educational Psychology, or Secondary Education, or Elementary Education, or Public School Administration, as the student may elect and the Departmental Committee approve. In exceptional cases, qualified students may be permitted to take six semester hours of the supervised reading during the Junior year and increase the amount of course work in the Department the Senior year.

At the conclusion of the work the student shall be given an oral examination by a committee of three, consisting of the two members of the Departmental Committee on Honors in charge of his supervised reading and another member of the Department selected by the Departmental Committee.

ENGLISH

PROFESSOR WHITE, CHAIRMAN; ASSOCIATE PROFESSOR SANDERS, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS BAUM, GILBERT, GOHDES, HUBBELL, AND IRVING; ASSOCIATE PROFESSORS BLACKBURN, PATTON, MITCHELL, AND WARD; ASSISTANT PROFESSORS BEVINGTON, HERRING, JORDAN, LEARY, SUGDEN, TALBERT, VANCE, WEST, AND WHITE; DRs. HARWELL AND POTEAT; MESSRS. BADENOCH, BRICE, BRYAN, FITZGERALD, LOVELL, AND KENNEDY; MRS. BEVINGTON

1-2. English Composition.—6 s.h.

ASSOCIATE PROFESSORS BLACKBURN, PATTON, SANDERS, AND WARD;
ASSISTANT PROFESSORS BEVINGTON, JORDAN, LEARY, SUGDEN, TALBERT,
VANCE, AND WHITE; DRs. HARWELL AND POTEAT; MESSRS. BRICE,
BRYAN, FITZGERALD, LOVELL, AND KENNEDY; MRS. BEVINGTON

53. English Composition.—3 s.h. [Not offered in 1945-46]

ASSISTANT PROFESSOR JORDAN

58. English Composition.—3 s.h. [Not offered in 1945-46]

ASSISTANT PROFESSOR JORDAN

65-66. English Composition.—6 s.h. [Not offered in 1945-46]

ASSOCIATE PROFESSOR SANDERS

101-102. Advanced English Composition.—6 s.h. [Not offered in 1945-46]

ASSOCIATE PROFESSOR MITCHELL

103-104. English Composition.—6 s.h.

ASSOCIATE PROFESSOR BLACKBURN

- 107-108. Journalism.—6 s.h. ASSISTANT PROFESSOR SUGDEN
 109-110. English Composition.—6 s.h. ASSOCIATE PROFESSOR BLACKBURN
 133. Verse-Writing.—3 s.h.
 [Not offered in 1945-46] PROFESSOR WHITE

DRAMATICS AND SPEECH

- 105-106. Playwriting.—6 s.h. ASSISTANT PROFESSOR WEST
 [Not offered in 1945-46]
 119-120. History of the Theater.—6 s.h. ASSISTANT PROFESSOR WEST
 [Not offered in 1945-46]
 121-122. Play Production.—6 s.h. ASSISTANT PROFESSOR WEST
 139-140. Speaking Voice.—6 s.h. ASSISTANT PROFESSOR WEST
 150. Oral Interpretation of Literature.—3 s.h. MR. BADENOCH
 151. Essentials of Public Speaking.—3 s.h. MR. BADENOCH
 152. Argumentation.—Prerequisite: English 151. 3 s.h.
 ASSISTANT PROFESSOR HERRING AND MR. BADENOCH

ENGLISH AND AMERICAN LITERATURE AND LANGUAGE

- 55-56. Representative Writers.—6 s.h.
 PROFESSOR IRVING; ASSOCIATE PROFESSORS PATTON, BLACKBURN,
 SANDERS, AND WARD; ASSISTANT PROFESSORS SUGDEN
 AND VANCE; AND DR. POTEAT
 63-64. Introduction to English Poetry.—6 s.h.
 ASSOCIATE PROFESSOR MITCHELL
 123-124. Shakespeare.—6 s.h. ASSISTANT PROFESSOR TALBERT
 125-126. English Literature, 1789-1832.—6 s.h.
 PROFESSOR WHITE, ASSOCIATE PROFESSOR PATTON,
 AND ASSISTANT PROFESSOR WHITE
 127-128. English Prose Literature, 1832-1900.—6 s.h.
 [Not offered in 1945-46] ASSISTANT PROFESSOR BEVINGTON
 129-130. English Novel.—6 s.h.
 ASSOCIATE PROFESSOR MITCHELL AND ASSISTANT PROFESSOR VANCE
 131-132. English Literature, 1832-1900.—6 s.h.
 ASSISTANT PROFESSOR BEVINGTON AND
 ASSOCIATE PROFESSOR SANDERS
 135-136. Major Works of the Victorian Period.—6 s.h.
 ASSOCIATE PROFESSOR SANDERS AND
 ASSISTANT PROFESSOR BEVINGTON
 137-138. American Literature.—6 s.h.
 PROFESSOR GOHDES AND ASSISTANT PROFESSOR LEARY
 142. Materials and Methods of Teaching High-School English.—3 s.h.
 ASSISTANT PROFESSOR JORDAN
 143-144. English Literature: Elizabethan and Seventeenth Century.—6 s.h.
 ASSOCIATE PROFESSOR BLACKBURN
 145-146. English Poetry, 1832-1900.—6 s.h. ASSOCIATE PROFESSOR SANDERS
 153-154. Comparative Literature.—6 s.h. PROFESSOR IRVING
 [Not offered in 1945-46]
 155-156. Contemporary Drama.—6 s.h. ASSISTANT PROFESSOR WHITE

- 159-160. English Literary Biography.—6 s.h. PROFESSOR WHITE
[Not offered in 1945-46]
- 165-166. The Short Story in America.—6 s.h.
PROFESSORS HUBBELL AND GOHDES
- 167-168. English Prose, 1790-1830.—6 s.h. ASSOCIATE PROFESSOR PATTON
- FOR SENIORS AND GRADUATES
- 201-202. Anglo-Saxon.—6 s.h. PROFESSOR BAUM
[Not offered in 1945-46]
- 203-204. Chaucer.—6 s.h. PROFESSOR BAUM
- 205-206. Middle English.—6 s.h. PROFESSOR BAUM
- 207-208. English Literature, 1400-1550.—6 s.h. PROFESSOR BAUM
[Not offered in 1945-46]
209. English Literature Other than Drama, 1550-1625.—3 s.h.
PROFESSOR GILBERT
210. English Literature Other than Drama, 1625-1700.—3 s.h.
ASSOCIATE PROFESSOR WARD
- 215-216. Elizabethan Drama.—6 s.h.
PROFESSOR GILBERT AND ASSISTANT PROFESSOR TALBERT
- 219-220. The Eighteenth Century.—6 s.h. PROFESSOR IRVING
- 221-222. English Literature of the Early Nineteenth Century.—6 s.h.
PROFESSOR WHITE
- 223-224. English Literature of the Later Nineteenth Century.—6 s.h.
PROFESSOR BAUM
227. Literary Criticism.—3 s.h. PROFESSOR GILBERT
- 229-230. American Literature, 1800-1870.—6 s.h. PROFESSOR HUBBELL
- 231-232. Special Studies in American Literature.—6 s.h.
PROFESSOR GOHDES
- 233-234. American Literature since 1870.—6 s.h. PROFESSOR GOHDES
237. English Drama, 1642-1800.—3 s.h. ASSOCIATE PROFESSOR WARD
- 247-248. American Literature of the Colonial Period.
ASSISTANT PROFESSOR LEARY
- 269-270. Southern Literature.—6 s.h.
[Not offered in 1945-46] PROFESSOR HUBBELL

NAVY V-12 COURSES

E1-2. English I and II.—Three discussion and writing periods each week for two terms. May be substituted for English 1-2. 6 s.h.

E3-4. English III and IV.—A study of notable contributions to the literature of ideas about man in his social relations. 6 s.h.

E5. English Literature.—An introduction to the major works of English literature. 3 s.h.

E6. American Literature.—An introduction to the major works of American literature. May be substituted for English 137. 3 s.h.

DEPARTMENTAL MAJOR

All majors in English will center their work around one of five period courses. One additional English course will be closely related to this period course and one will not. Related work will be chosen carefully to support

wherever possible the body of knowledge acquired in the English courses. Teachers in charge of the period courses will act as an advisory board for majors and assist them in the choice of English courses, related work, and electives.

Prerequisites: English 1 and 2.

Requirements for the Major: A major in English consists of twenty-four semester hours of credit distributed as follows: *Six* hours must ordinarily be devoted to either English 55-56 or English 63-64; *six* hours to one of five designated period courses (English 143-144, 219-220, 125-126, 131-132, or 137-138); *six* hours to a course or courses contiguous with or closely related to the period course chosen; and *six* hours to a course or courses not contiguous with or closely related to the period course chosen. At least six hours of these must be drawn from courses the material of which is predominantly English literature written earlier than 1800. Courses in Comparative Literature, Composition, Dramatics, and Speech may be counted as related work. So far as possible, students' programs will be made up of complete year courses.

FORESTRY

Students without a Bachelor's degree who are preparing for work in forestry as a profession should take the courses outlined under the Academic-Forestry Combination. However, with the consent of the instructor in charge, certain forestry courses may be elected by students in other curricula provided they have had adequate preparation (see *Bulletin of the School of Forestry*).

Members of the Sophomore, Junior, and Senior classes may elect the following course:

52. Principles of Forestry.—2 s.h.
[Not offered in 1945-46]

ASSOCIATE PROFESSOR THOMSON

GEOLOGY

ASSOCIATE PROFESSOR BERRY

51. General Geology.—4 s.h.

ASSOCIATE PROFESSOR BERRY

52. General Geology.—Prerequisite: Geology 51. 4 s.h.

ASSOCIATE PROFESSOR BERRY

53. Physiography.—4 s.h.

ASSOCIATE PROFESSOR BERRY

64. Map Reading and Construction.—2 s.h.

ASSOCIATE PROFESSOR LEMERT

101-102. Mineralogy.—Prerequisite: Chemistry 1-2 (can be taken concurrently). 8 s.h.

ASSOCIATE PROFESSOR BERRY

151. Economic Geology.—Prerequisite: Geology 101-102. 4 s.h.

ASSOCIATE PROFESSOR BERRY

152. Introductory Paleontology.—Prerequisites: Geology 51, 52, and Zoology 1. 4 s.h.

ASSOCIATE PROFESSOR BERRY

DEPARTMENTAL MAJOR

Prerequisites: None for Geology 51. Chemistry 1-2 for Geology 101-102; Zoology 1 for Geology 152.

Major Requirements: Geology 51, 52, 101-102, 151, 152.

GERMAN LANGUAGE AND LITERATURE

PROFESSOR VOLLMER, CHAIRMAN; ASSISTANT PROFESSOR MAXWELL, DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR WILSON, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSOR KRUMMEL; DR. SHEARS

1-2. Elementary German.—6 s.h.

ASSISTANT PROFESSOR WILSON AND STAFF

3-4. Intermediate German.—6 s.h.

PROFESSOR KRUMMEL AND STAFF

- 51-52. Third-Year German.—6 s.h.
 101-102. Elementary German.—6 s.h.
 103-104. Intermediate German.—6 s.h.
 107. Scientific German.—3 s.h.
 PROFESSOR KRUMMEL AND ASSISTANT PROFESSOR WILSON
 108. Advanced Scientific and Medical German.—3 s.h.
 PROFESSOR KRUMMEL AND ASSISTANT PROFESSOR WILSON
 109-110. German Prose Fiction.—6 s.h. PROFESSOR KRUMMEL
 111-112. Introduction to the Classic Drama.—6 s.h.
 ASSISTANT PROFESSOR WILSON
 113-114. Nineteenth-Century German Poetry.—6 s.h.
 ASSISTANT PROFESSOR WILSON
 115-116. German Drama of the Nineteenth Century.—6 s.h.
 PROFESSOR KRUMMEL
 117-118. German Conversation.—6 s.h. PROFESSOR VOLLMER
 119-120. German Literature in English Translation.—6 s.h.
 PROFESSOR VOLLMER
 121-122. Schiller.—6 s.h. PROFESSOR VOLLMER
 123-124. Modern German Short Story.—6 s.h. DR. SHEARS
 125-126. Contemporary German Literature.—6 s.h. DR. SHEARS
 127-128. Survey of Nineteenth-Century German Literature.—6 s.h.
 PROFESSOR VOLLMER
 129-130. Military and Service German.—3 s.h.
 ASSISTANT PROFESSOR WILSON
 201-202. Goethe.—6 s.h. PROFESSOR KRUMMEL
 203-204. Leibnitz to Romanticism.—6 s.h. PROFESSOR VOLLMER
 205-206. Middle High German.—6 s.h. PROFESSOR VOLLMER
 207-208. German Romanticism.—6 s.h. PROFESSOR VOLLMER
 209-210. Kleist, Grillparzer, and Hebbel.—6 s.h. PROFESSOR KRUMMEL
 211-212. Heinrich Heine and Young Germany.—6 s.h.
 PROFESSOR VOLLMER
 213-214. Literature of the Empire, 1871-1914.—6 s.h. PROFESSOR VOLLMER

NAVY V-12 COURSES

- Foreign Language 1-2 may be substituted for a first-year language.
 Foreign Language 3-4 may be substituted for a second-year language.
 Foreign Language 5, 6, and 7 may be substituted for third-year courses.

DEPARTMENTAL MAJOR

1. *Prerequisites:* German 1-2 and 3-4.

2. *Major Requirements:* Twenty-four hours in the German Department. Twelve of these must be selected from the 200 courses. The remaining twelve may be selected from German 51-52 and any courses in the 100 group except 101-102, 103-104, and 119-120.

HONORS IN GERMAN

Prerequisites:

1. For admission to candidacy for Honors in German, a student must have begun the study of the language not later than the Freshman year in college.

2. A student who has completed at least twelve semester hours of college German by the end of the Sophomore year with a grade of "A" or "B" (equivalent courses in secondary schools or in other colleges may be presented as substitutes) is eligible to apply to the Departmental Committee for permission to read for Honors in German.

General Rules:

I. The Departmental Honors Program constitutes the work of the Honors student during the Junior and Senior years. This program shall be the equivalent of sixty semester hours of work.

II. *Work in the German Department:* The amount of work taken in the German Department shall be the equivalent of thirty-six semester hours. Of this the work done in the Honors tutorials shall count twelve hours, six hours for the Junior year and six hours for the Senior year. The comprehensive examinations at the end of the Senior year are counted as part of this twelve semester hours credit.

III. *Related Work:* The related work, which constitutes at least two fifths of the Honors program, that is, the equivalent of twenty-four semester hours, must be distributed among not less than two departments, unless the Departmental Committee gives special permission for the student to take his related work in one department.

IV. *General Honors Examinations:* In May of the Senior year the candidate will be given a general written examination, conducted by his Adviser, on his Honors Reading. A general oral examination, conducted by the Departmental Committee and presupposing a general knowledge of the development of German culture and civilization and a practical ability in the use of the German language, will also be conducted in May.

GOVERNMENT

See courses listed under Political Science.

GREEK

DR. ROSE, SUPERVISOR OF FRESHMAN INSTRUCTION; ASSISTANT PROFESSOR WAY;
DR. TRUESDALE

1-2. Course for Beginners.—6 s.h.

ASSISTANT PROFESSOR WAY AND DR. ROSE

53-54. Xenophon.—6 s.h.

DR. ROSE

105-106. Homer.—6 s.h.

DR. ROSE

107-108. Euripides.—6 s.h.

ASSISTANT PROFESSOR WAY

15. Mythology.—3 s.h.

DR. ROSE

115-116. Sight Reading in Greek.—4 s.h.

ASSISTANT PROFESSOR WAY AND DR. ROSE

117-118. Greek Prose Composition.—3 s.h.

DR. ROSE

121-122. Greek Literature in English Translation.—6 s.h.

DR. ROSE

141-142. Greek Art.—6 s.h.

ASSISTANT PROFESSOR WAY

131. History of Greece.—3 s.h.

ASSISTANT PROFESSOR WAY

203-204. Homer.—Pindar and Bacchylides. 6 s.h.

ASSISTANT PROFESSOR WAY

207-208. Greek Orators.—6 s.h.	ASSISTANT PROFESSOR WAY
209-210. Plato.—6 s.h.	ASSISTANT PROFESSOR WAY
243. Athenian Topography.—3 s.h.	ASSISTANT PROFESSOR WAY
244. Greek Epigraphy.—3 s.h.	ASSISTANT PROFESSOR WAY
245. Greek Dialects.—3 s.h.	ASSISTANT PROFESSOR WAY
246. Greek Historical Inscriptions.—3 s.h.	ASSISTANT PROFESSOR WAY
247-248. Greek Archaeology.—6 s.h.	ASSISTANT PROFESSOR WAY
257. Social and Cultural History of the Hellenistic World from Alexander to Augustus.—3 s.h.	PROFESSOR ROGERS

NAVY V-12 COURSES

Foreign Language 1-2 may be substituted for a first-year language.
 Foreign Language 3-4 may be substituted for a second-year language.
 Foreign Language 5, 6, and 7 may be substituted for third-year courses.

DEPARTMENTAL MAJOR

Prerequisites: Greek 1-2.

Major Requirements: A candidate for a major in Greek must complete twenty-four semester hours, including the following courses: Greek 53-54, 105-106, 107-108, 117-118, and 131.

DEPARTMENTAL HONORS PROGRAM

For admission to candidacy for Honors in Greek the student must have completed Greek 1-2 and 53-54 or their equivalent.

Candidates for Honors must complete the following program of work:

- (a) Greek 105-106, 131, 141-142, 107-108, 122, and 117-118.
- (b) Four year-courses in related departments.
- (c) The Honors Reading. This is tutorial work in which the student is required to read assigned portions of Greek literature by himself, to write papers on topics related to his reading, and to meet the Honors Adviser in weekly conferences for the discussion of the literature that he is reading independently. For the Honors Reading a credit of nine semester hours is given.

HEALTH AND PHYSICAL EDUCATION

TRINITY COLLEGE AND THE COLLEGE OF ENGINEERING

MR. WADE, DIRECTOR; MR. CAMERON, ACTING DIRECTOR; MESSRS. AYCOCK, CALDWELL, CARD, CHAMBERS, COOMBS, COX, CRICHTON, FOGLEMAN, GERARD, HAGLER, LEWIS, MONTFORT, PERSONS, POTTER, STANLEY

PHYSICAL EDUCATION CLASSES

1-2. Basketball.—1½ s.h.	MR. CALDWELL
3-4. Boxing.—1½ s.h.	MR. POTTER
5-6. Individual Corrective Activities.—1½ s.h.	MR. AYCOCK
7-8. Handball.—1½ s.h.	MR. GERARD
9-10. Softball.—1½ s.h.	MR. STANLEY
11-12. Soccer Football.—1½ s.h.	MR. GERARD
13-14. Swimming.—1½ s.h.	MR. PERSONS
15-16. Touch Football.—1½ s.h.	MR. GERARD
17-18. Tennis.—1½ s.h.	MR. COX
19-20. Tumbling Stunts.—1½ s.h.	MR. CARD

21-22. Postural Training.—1½ s.h.	MR. AYCOCK
25-26. Wrestling.—1½ s.h.	MR. POTTER
27-28. Apparatus Stunts.—1½ s.h.	MR. CARD
49. Lacrosse.—1½ s.h.	MR. POTTER
55-56. Individual Corrective Activities.—1½ s.h.	MR. AYCOCK
59. Baseball.—1½ s.h.	MR. COOMBS
61-62. Golf.—1½ s.h.	MR. CRICHTON AND MR. HAGLER
63-64. Advanced Tennis.—1½ s.h.	MR. COX
65-66. Advanced Apparatus.—1½ s.h.	MR. AYCOCK

INTERCOLLEGIATE ATHLETIC SPORTS

FRESHMEN

- 30. Baseball.—1½ s.h.
- 32. Basketball.—1½ s.h.
- 37. Football.—1½ s.h.
- 38. Football.—1½ s.h.
- 41. Cross Country.—1½ s.h.
- 42. Swimming.—1½ s.h.
- 44. Tennis.—1½ s.h.
- 46. Track.—1½ s.h.
- 48. Wrestling.—1½ s.h.
- 50. Lacrosse.—1½ s.h.

VARSITY

- 70. Lacrosse.—1½ s.h.
- 80. Baseball.—1½ s.h.
- 82. Basketball.—1½ s.h.
- 83. Basketball.—1½ s.h.
- 87. Football.—1½ s.h.
- 88. Football.—1½ s.h.
- 90. Golf.—1½ s.h.
- 91. Cross Country.—1½ s.h.
- 92. Tennis.—1½ s.h.
- 93. Soccer Football.—1½ s.h.
- 94. Swimming.—1½ s.h.
- 95. Track.—1½ s.h.
- 96. Track.—1½ s.h.
- 98. Wrestling.—1½ s.h.

ELECTIVES IN PHYSICAL EDUCATION

Students in Group VI A may elect fifteen semester hours from the courses offered below. Six semester hours may be elected from the courses listed under Special Methods in Physical Education and nine semester hours may be elected from the courses listed under Theory and Practice in Physical Education.

These courses are arranged to meet the increasing demand for teachers who are qualified to coach and teach physical education. These courses should be selected with the advice of the Director of Undergraduate Studies in order to meet the needs of the individual.

SPECIAL METHODS IN PHYSICAL EDUCATION

163. Athletic Coaching in Secondary Schools.—Prerequisites: courses 30 or 80 and 21-22 or 46 or 96 or their equivalent. 3 s.h.

MR. COOMBS, MR. CHAMBERS

164. Athletic Coaching in Secondary Schools.—Prerequisites: courses 37 or 87 and 1-2 or 32 or 82 or their equivalent. 3 s.h.

MR. CAMERON, MR. STANLEY

THEORY AND PRACTICE IN PHYSICAL EDUCATION

65. History and Principles of Physical Education.—3 s.h.
MR. AYCOCK, MR. GERARD
172. Recreational Leadership.—3 s.h. MR. GERARD
173. Individual Gymnastics.—3 s.h. MR. AYCOCK
182. The Administration of Health and Physical Education in Secondary Schools.—3 s.h. MR. AYCOCK, MR. GERARD
187. School Programs of Physical Education.—3 s.h. MR. GERARD
190. Protective Practices in Physical Education.—3 s.h. MR. CHAMBERS

NAVY V-12 COURSES

Navy V-12 courses may be substituted for required physical training.

WOMAN'S COLLEGE

ASSOCIATE PROFESSOR GROUT, CHAIRMAN; MRS. BERRY, MISS LEWIS, MISS LITTLE, MISS MCKEE, MISS VAN TUYL, AND MISS WEEKS

PHYSICAL EDUCATION ACTIVITIES

Six hours of credit in physical education, with an average grade of "C," must be completed for graduation. Two hours a week through the Junior year are needed to fulfill this requirement.

All students are given a physical and medical examination upon entering and at intervals throughout their college course. Classes in individual gymnastics and light sports are arranged for those who should not take the more active work.

October to December: Badminton, bowling, diving, golf, hockey, recreational sports, riding, soccer, swimming, tennis, volleyball.

December to March: Badminton, basketball, body mechanics, bowling, conditioning exercises, folk and square dancing, social dancing, modern dance, rhythm fundamentals, fencing, individual gymnastics, life saving, swimming.

March to May: Archery, badminton, bowling, diving, fencing, golf, life saving, modern dance, riding, softball, swimming, tennis, track and field activities.

PHYSICAL EDUCATION THEORY

Students in Group VI A may receive academic credit for all courses listed below.

Students in Group VI B may receive academic credit for Physical Education 102, Health Education 41 and 112.

Students in all groups may receive credit for Physical Education 105-106, 108, and Health Education 41, 112, and 115.

101. History and Principles of Physical Education.—2 s.h.
ASSOCIATE PROFESSOR GROUT
102. The Teaching of Physical Education in Elementary Schools.—3 s.h.
MISS WEEKS
- 105-106. Methods and Materials in Recreation.—6 s.h.
Supervisor: ASSOCIATE PROFESSOR GROUT. Teachers: ASSOCIATE PROFESSOR ADDOMS, MISS MCKEE
108. Problems in Community Recreation.—3 s.h. MISS MCKEE
114. Kinesiology.—3 s.h. MISS LITTLE
118. Orthopedic and Remedial Physical Education.—3 s.h. MISS LITTLE
119. Organization and Administration of Physical Education.—2 s.h.
ASSOCIATE PROFESSOR GROUT

181-182. Methods and Materials in Physical Education.—6 s.h.

MISS LEWIS AND STAFF

185-186. Advanced Methods and Materials in Physical Education.—6 s.h.

MISS LEWIS AND STAFF

HEALTH EDUCATION

41. Personal Health Problems.—3 s.h.

MRS. BERRY

112. School Health Problems.—3 s.h.

MRS. BERRY

115. Community Health Problems.—Prerequisite: Health Education 41.
3 s.h.

MRS. BERRY

REQUIREMENTS FOR TEACHING HEALTH AND PHYSICAL EDUCATION IN PUBLIC SCHOOLS

The following requirements have been set up for students in Group VI A who wish to qualify as full-time or part-time teachers of Health and Physical Education. These requirements meet the standards of the North Carolina Department of Public Instruction for certification in Health and Physical Education and of most of the other states represented in the student body. Students preparing to teach in any state are advised to check with the department as to specific requirements.

Prerequisites: Zoology 1-2, Health Education 41.

Thirty semester hours, including Physical Education 101, 118, 119, 181-182, 185-186, Health Education 112, Zoology 53, 151.

Education Requirements: Consult Department of Education.

Students preparing to teach physical education and health on a part-time basis only are advised to take at least the following program:

Prerequisite: Health Education 41.

A minimum of fifteen semester hours including Physical Education 101, 119, 181-182, Health Education 112 and a physical education elective, three semester hours.

Education Requirements: Consult Department of Education.

HISTORY

PROFESSOR LAPRADE, CHAIRMAN; ASSOCIATE PROFESSOR NELSON, DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR HAMILTON, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS BALDWIN, CARROLL, CLYDE, LANNING, AND SYDNOR; ASSOCIATE PROFESSORS MANCHESTER, ROBERT, AND WOODY; ASSISTANT PROFESSORS MCCLOY, QUINN, ROPP, AND STILL; DRs. BREWSTER, FERGUSON, PARKER, AND WATSON; MESSRS. MONTGOMERY AND VAN DUSEN

1-2. Historical Background of the World Today.—6 s.h.

PROFESSORS CLYDE AND LAPRADE; ASSOCIATE PROFESSOR NELSON; DR. BREWSTER

51-52. Historical Background of the World Today.—6 s.h.

PROFESSOR BALDWIN AND DR. BREWSTER

61-62. Russia and the Near East from Peter the Great to Stalin.—Prerequisite: course 1-2 or 51-52. 6 s.h.
[Not offered in 1945-46]

ASSISTANT PROFESSOR ROPP

63-64. Sea Power and Modern Navies.—6 s.h. ASSISTANT PROFESSOR ROPP
[Not offered in 1945-46; see course N3 below.]

65-66. The Social and Cultural History of Western Europe in the Seventeenth and Eighteenth Centuries.—6 s.h. ASSISTANT PROFESSOR MCCLOY

91. Political and Social History of the United States to 1850.—3 s.h.
 PROFESSOR SYDNOR; ASSOCIATE PROFESSORS ROBERT AND WOODY;
 DR. BREWSTER, AND MR. VAN DUSEN
92. Political and Social History of the United States since 1850.—3 s.h.
 PROFESSOR SYDNOR; ASSOCIATE PROFESSORS ROBERT AND WOODY;
 DR. BREWSTER, AND MR. VAN DUSEN
- 101-102. Early European Civilization.—6 s.h.
 ASSISTANT PROFESSOR QUINN
- 105-106. English Constitutional History.—6 s.h.
 ASSISTANT PROFESSOR HAMILTON
- 107-108. Social and Cultural History of England.—6 s.h. DR. FERGUSON
 [Not offered in 1945-46]
- 109-110. Political and Cultural Foundations of Modern Europe, 1400-1648.—6 s.h.
 [Not offered in 1945-46] ASSOCIATE PROFESSOR NELSON
114. History of the United States since Reconstruction.—Prerequisites:
 courses 91 and 92. 3 s.h. PROFESSOR LANNING
 [Not offered in 1945-46]
- 119-120. Social and Cultural History of the United States.—Prerequisites:
 courses 91 and 92. 6 s.h.
 [Not offered in 1945-46] ASSOCIATE PROFESSOR ROBERT
- 121-122. The Church in American History.—Prerequisites: courses 91 and
 92. 6 s.h. PROFESSOR BALDWIN
 [Not offered in 1945-46]
- 123-124. English History.—6 s.h. PROFESSOR LAPRADE
125. The Ancient Regime, the French Revolution, and Napoleon.—3 s.h.
 DR. PARKER
 [Not offered in 1945-46]
126. The Congress of Vienna and the Rise of the European Nations to
 1870.—3 s.h. DR. PARKER
 [Not offered in 1945-46]
127. History of Latin America Through the Formation of the National
 Governments.—3 s.h. PROFESSOR LANNING
128. Inter-American Affairs.—3 s.h. PROFESSOR LANNING
- 129-130. European Expansion Overseas.—6 s.h.
 ASSOCIATE PROFESSOR MANCHESTER
- Ancient History.—Greek 131—Latin 131-132.
135. Main Currents in European History, 1815-1914.—3 s.h.
 PROFESSOR CARROLL
136. Europe since 1914, Including the Rise of the Totalitarian States,
 Russia, Italy, and Germany; the Second World War.—3 s.h.
 PROFESSOR CARROLL AND ASSISTANT PROFESSOR HAMILTON
- 141-142. The Far East from Commodore Perry to Chiang Kai-shek.—
 6 s.h. PROFESSOR CLYDE
- 153-154. The History of the South.—6 s.h. PROFESSOR SYDNOR
- FOR SENIORS AND GRADUATES
- 203-204. The United States, 1850-1900.—6 s.h.
 ASSOCIATE PROFESSOR WOODY
- 209-210. American Constitutional History.—Prerequisites: courses 91 and
 92. 6 s.h. ASSISTANT PROFESSOR STILL

211. The Teaching of History and the Social Studies (Education 225).—3 s.h. ASSOCIATE PROFESSOR MANCHESTER
[Not offered in 1945-46]
- 215-216. The Foreign Policy and Diplomacy of the United States.—6 s.h. PROFESSOR CLYDE
[Not offered in 1945-46]
- 217-218. Europe since 1870.—6 s.h. PROFESSOR CARROLL
- 219-220. The History of the European Proletariat.—6 s.h. PROFESSOR CARROLL
[Not offered in 1945-46]
- 221-222. The Age of the Renaissance.—6 s.h. ASSOCIATE PROFESSOR NELSON
- 223-224. Medieval Institutions and Culture.—6 s.h. ASSISTANT PROFESSOR QUINN
- 225-226. The Age of the Reformation.—6 s.h. ASSOCIATE PROFESSOR NELSON
[Not offered in 1945-46]
230. The Portuguese Empire and the Rise of Brazil.—3 s.h. ASSOCIATE PROFESSOR MANCHESTER
[Not offered in 1945-46]
231. The Hispanic Colonies of the New World.—3 s.h. PROFESSOR LANNING
[Not offered in 1945-46]
232. Hispanic Republics of the New World.—3 s.h. PROFESSOR LANNING
[Not offered in 1945-46]
233. The Cultural and Institutional History of Colonial Hispanic America.—3 s.h. PROFESSOR LANNING
234. Political and Social Problems in the Hispanic American Republics.—3 s.h. PROFESSOR LANNING
- 241-242. The Foreign Relations and Diplomacy of the United States in the Pacific Area and the Far East.—6 s.h. PROFESSOR CLYDE
- 263-264. American Colonial History and the Revolution, 1606-1783.—Prerequisites: courses 91 and 92. 6 s.h. ASSISTANT PROFESSOR WOODY
[Not offered in 1945-46]
- 265-266. The Westward Movement in the United States.—Prerequisites: courses 91 and 92. 6 s.h. ASSISTANT PROFESSOR STILL
[Not offered in 1945-46]

NAVY V-12 COURSES

- H1-2. Historical Background of Present World War.—May be counted as an introductory course in History. 4 s.h.
- N3. Naval History and Elementary Strategy.—3 s.h.
- H3. The Ecclesiastical Age.—3 s.h.
- H4. A Course Covering the 14th, 15th, 16th, and 17th Centuries to the Close of the Religious Wars in 1648.—3 s.h.
- H5. Origins of Modern Europe, 1648-1815.—3 s.h.
- H6. Europe in Modern Times from the French Revolution to the Munich Pact.—3 s.h.
- H7. American History.—3 s.h.

DEPARTMENTAL MAJOR

Prerequisites: The Introductory Course in History (1-2 or 51-52).

Major Requirements: Students in the General Group desiring to take a major in history are required to elect twenty-four semester hours in the De-

partment, including six semester hours in the Senior year from courses in the 200 group. Students desiring to take the more advanced courses in American history should elect courses 91 and 92 in the Sophomore or Junior year.

DEPARTMENTAL HONORS PROGRAM

Students may become candidates for Honors in history who have passed with a grade of "B" or better in their Freshman and Sophomore years courses 91 and 92 in addition to the introductory course in European history.

Candidates for Honors in history are required to take in the Junior year two courses in history offered in the 100 group and to make an average grade of "B" or better on this work. The remaining work in the Junior year will be chosen from related work and other electives with the consent of the Departmental Committee on Honors. In the Senior year, in addition to the equivalent of fifteen semester hours of supervised reading in history, the candidate must elect with the approval of the Departmental Committee on Honors six semester hours of work from the courses in history offered in the 200 group, on which he is required to make a grade of "B" or better, and nine semester hours of related or other elective work.

Of the supervised reading, which shall be done under the immediate supervision of members of the Departmental Committee on Honors, the equivalent of six semester hours shall be devoted to the classical historians such as Herodotus, Thucydides, Tacitus, Livy, Bede, the better-known chronicles, Machiavelli, Gibbon, Hume, Voltaire, Ranke, and others; the equivalent of nine semester hours shall be devoted to selected fields in either American or European history as the student may elect and the Departmental Committee advise.

At the conclusion of the work the student shall be given an oral examination by a committee of three, consisting of the two members of the Departmental Committee on Honors in charge of his supervised reading and another member of the Department selected by the Departmental Committee.

LATIN AND ROMAN STUDIES

PROFESSOR ROGERS, CHAIRMAN AND DIRECTOR OF UNDERGRADUATE STUDIES ;

DR. ROSE, SUPERVISOR OF FRESHMAN INSTRUCTION

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|---|------------------|
| 1-2. Course for Beginners.—6 s.h. | DR. ROSE |
| 3. Cicero's Orations.—Prerequisite: two entrance units of Latin. 3 s.h. | DR. ROSE |
| 4. Vergil's Aeneid.—Prerequisite: three entrance units and Latin 57 taken in the semester preceding admission to the course, unless Latin 3 was taken. 3 s.h. | DR. ROSE |
| 41. Livy's History of Rome.—3 s.h. | PROFESSOR ROGERS |
| 42. Horace.—3 s.h. | DR. ROSE |
| 53. Sallust and Tacitus.—Prerequisite: Latin 41-42 or an equivalent. 3 s.h. | DR. ROSE |
| 54. Catullus. | DR. ROSE |
| 57. Sight Reading in Classical Latin.—1 s.h. | DR. ROSE |
| 58. Sight Reading in Medieval Latin.—Prerequisite: at least one of the following courses: Latin 3, 4, 41, 42, and 57, or an equivalent. 1 s.h. | DR. ROSE |
| 65-66. Latin Prose Composition.—2 s.h. | DR. ROSE |
| 101-102. Tacitus and Suetonius.—3 s.h. | PROFESSOR ROGERS |
| 102. Juvenal and Persius.—3 s.h. | PROFESSOR ROGERS |
| 103. The Roman Elegiac Poets. | |

104. Horace: Satires and Epistles.
 105. Martial's Epigrams.
 106. Letters of Pliny the Younger.
 107. Livy: Ab Urbe Condita.
 108. Cicero's Letters.
 109. Materials and Methods.—Prerequisite: eighteen approved semester hours of college Latin, including courses 41-42, 53-54, or equivalent courses. 3 s.h. DR. ROSE
 111-112. Roman Literature in English Translation.—3 s.h. DR. ROSE
 113-114. Roman Civilization.
 115-116. Art and Architecture of Ancient Rome.
 131-132. History of Rome.—6 s.h. PROFESSOR ROGERS
 203-204. Roman Epic: Ennius, Vergil, Manilius, Lucan, Flaccus, Statius, Silius.—6 s.h.
 205-206. Roman Drama.—6 s.h.
 207-208. Roman Philosophy.
 209-210. Vulgar Latin: Introduction to Romance Philology.
 211-212. Roman Oratory.—6 s.h. PROFESSOR ROGERS
 215. Roman Art and Archaeology.
 216. Topography and Monuments of Ancient Rome.

NAVY V-12 COURSES

- Foreign Language 1-2 may be substituted for a first-year language.
 Foreign Language 3-4 may be substituted for a second-year language.
 Foreign Language 5, 6, and 7 may be substituted for third-year courses.

DEPARTMENTAL MAJOR

Prerequisites: Latin 41-42, 65-66, or acceptable equivalents.

Major Requirements: Latin 53-54, 101-102, six semester hours in courses numbered from 103 to 108, and six semester hours in courses numbered from 200 to 299 to be taken in the Senior year.

In addition, all majors are expected to pursue course 131-132, History of Rome.

Majors who contemplate graduate work are reminded of the necessity of Greek, German, and French for such study.

LAW COURSES FOR ACADEMIC STUDENTS

The first-year program of the Law School will include the following courses:

<i>Subject</i>	<i>Semester Hours</i>
Agency	2
Contracts	6
Criminal Law and Its Administration	3
Family Law	2
Introduction to Procedure	3
Legal Bibliography	1
Personal Property	2
Possessory Estates	2
Torts	5

MATHEMATICS

PROFESSOR GERGEN, CHAIRMAN; PROFESSOR ELLIOTT, DIRECTOR OF UNDERGRADUATE STUDIES; ASSOCIATE PROFESSOR DRESSEL, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS CARLITZ, RANKIN, AND THOMAS; ASSOCIATE PROFESSOR ROBERTS; ASSISTANT PROFESSORS HICKSON AND PATTERSON; DR. WADE; AND ASSISTANTS

1. Introduction to College Algebra.—3 s.h. STAFF
- 1A. College Algebra.—4 s.h. STAFF
2. Trigonometry.—Prerequisite: Mathematics 1 or the equivalent. 3 s.h. STAFF
- 2A. Trigonometry.—Prerequisite: Mathematics 1A or the equivalent. 4 s.h. STAFF
- 3-4. Mathematical Analysis for Students of Business.—6 s.h. STAFF
7. Algebra and Trigonometry.—3 s.h. STAFF
8. Introduction to Analytic Geometry and Calculus.—3 s.h. STAFF
- 9-10. First-Year Engineering Mathematics.—10 s.h. STAFF
15. Spherical Geometry and Trigonometry.—Prerequisite: Mathematics 7 or the equivalent. 3 s.h. ASSOCIATE PROFESSOR DRESSEL
50. Analytic Geometry.—Prerequisite: Mathematics 7 or the equivalent. 3 s.h. STAFF
- 51-52. Differential and Integral Calculus.—Prerequisite: Mathematics 50 or permission from the instructor. 6 s.h. STAFF
- 59-60. Second-Year Engineering Mathematics.—Prerequisite: Mathematics 9-10 or the equivalent. 8 s.h. STAFF
63. Graphical and Numerical Computation.—Prerequisite: Mathematics 7 or the equivalent. 3 s.h. PROFESSOR THOMAS
[Not offered in 1945-46]
64. Mathematics of Artillery Fire.—Prerequisite: Mathematics 7 or the equivalent. 3 s.h. PROFESSOR THOMAS
[Not offered in 1945-46]
71. Mathematics of Investment.—Prerequisite: 6 semester hours of college mathematics. 3 s.h. ASSISTANT PROFESSOR HICKSON
74. Statistics.—Prerequisite: 6 semester hours of college mathematics. 3 s.h. ASSISTANT PROFESSOR HICKSON
76. Mathematical Theory of Economics.—Prerequisite: Mathematics 4 or the equivalent. 3 s.h. ASSISTANT PROFESSOR HICKSON
131. Elementary Differential Equations.—Prerequisite: integral calculus. 3 s.h. ASSISTANT PROFESSOR HICKSON
- 139-140. Second Course in Calculus.—Prerequisite: integral calculus. 6 s.h. PROFESSOR ELLIOTT
158. Finite Differences.—3 s.h. PROFESSOR CARLITZ
160. Elementary Solid Analytic Geometry.—Prerequisite: integral calculus. 3 s.h. PROFESSOR CARLITZ
- 161-162. Reading Course for Juniors.
- 163-164. Reading Course for Seniors.

FOR SENIORS AND GRADUATES

201. History of Mathematics.—Prerequisite: differential calculus. 3 s.h.
PROFESSOR RANKIN
204. Teaching of Mathematics.—3 s.h.
PROFESSOR RANKIN
225. Theory of Equations.—Prerequisite: integral calculus. 3 s.h.
- 227-228. Theory of Numbers.—Prerequisite: integral calculus. 6 s.h.
PROFESSOR CARLITZ
- 220-230. Algebraic Numbers.—Prerequisite: Mathematics 225. 6 s.h.
PROFESSOR CARLITZ
- 235-236. Modern Algebra.—Prerequisite: integral calculus. 6 s.h.
PROFESSOR CARLITZ
250. Modern Geometry.—3 s.h.
[Not offered in 1945-46]
PROFESSOR THOMAS
- 255-256. Projective Geometry.—Prerequisite: integral calculus. 6 s.h.
[Not offered in 1945-46]
PROFESSOR THOMAS
- 271-272. Introductory Topology.—Prerequisite: integral calculus. 6 s.h.
[Not offered in 1945-46]
ASSOCIATE PROFESSOR ROBERTS
275. Probability.—Prerequisite: integral calculus. 3 s.h.
ASSOCIATE PROFESSOR DRESSSEL
281. Elementary Potential Theory.—Prerequisite: integral calculus. 3 s.h.
PROFESSOR GERGEN
282. Differential Equations of Mathematical Physics.—Prerequisite: integral calculus. 3 s.h.
ASSOCIATE PROFESSOR DRESSSEL
283. Fourier Series and Spherical Harmonics.—Prerequisite: integral calculus. 3 s.h.
ASSOCIATE PROFESSOR DRESSSEL
284. Vector Analysis.—Prerequisite: integral calculus. 3 s.h.
287. Mathematical Logic.—3 s.h.
PROFESSOR CARLITZ
288. Foundations of Mathematics.—3 s.h.
PROFESSOR CARLITZ
- 291-292. Theory of Functions.—Prerequisite: second course in calculus. 6 s.h.
PROFESSOR GERGEN

NAVY V-12 COURSES IN MATHEMATICS

For descriptions of courses M1 through A1, see Navy V-12 Bulletin, No. 101, November 1, 1943.

MR-MS. Mathematical Analysis R-S.—Equivalent in content to Mathematics M1-M2. May be substituted for Mathematics 9-10. Six recitations per week. Mathematics MR, 4 s.h.; Mathematics MS, 6 s.h.

MT-MU. Mathematical Analysis T-U.—Equivalent in content to Mathematics M5-M6. May be substituted for Mathematics 59-60. Mathematics MT, six recitations per week, 4 s.h.; Mathematics MU, four recitations per week, 4 s.h.

M1-M2. Mathematical Analysis I-II.—May be substituted for Mathematics 9-10. 10 s.h.

M3-M4. Mathematical Analysis III-IV.—May be substituted for Mathematics 9-10. 10 s.h.

M5-M6. Calculus I-II.—May be substituted for Mathematics 59-60. 7 or 8 s.h.

M7. Calculus III.—May be substituted for Mathematics 131. 3 s.h.

M8-M9. Elementary Navigation and Nautical Astronomy Ia-IIa.—6 s.h.

A1. Analytical Mechanics I.—Statics. 2 s.h.

DEPARTMENTAL MAJOR

Prerequisite: Six semester hours of Freshman mathematics.

Major Requirements: Mathematics 51-52 or 59-60 and twelve semester hours in courses numbered above 100. The twelve hours must be approved by the Department through the Director of the Undergraduate Studies.

DEPARTMENTAL HONORS PROGRAM

Prerequisites: A student who meets the general requirement as to candidacy of the Honors Group, who has completed Mathematics 51 or 59, and who has earned an average grade of "B" or better in his courses in mathematics, may become a candidate for Honors.

Honors Work:

(a) *Work in Mathematical Courses:* To graduate with Honors a candidate must complete, during his Honors program, a minimum of eighteen semester hours of course work in regular open courses numbered above 100. These courses must be completed with an average grade of "B" or better.

(b) *Tutorial Work:* During his Honors program a candidate reads on special topics in mathematics under the personal supervision of a tutor. A candidate must earn a minimum of six semester hours of credit in his tutorial work. He cannot earn more than nine semester hours in his tutorial work, nor more than thirty-six semester hours for his course work in mathematics and his tutorial work combined.

(c) *Work in Courses in Related Fields:* A candidate must earn a sufficient number of semester hours of credit in courses in related fields to complete with the credit obtained in (a) and (b) the sixty semester hours required in the Honors Group.

A candidate's program must be approved by the Departmental Honors Adviser.

General Honors Examination: At the end of his Senior year each candidate reading for Honors in Mathematics must pass a comprehensive examination on his Honors program. This examination may be written, oral, or both. Faculty members from other departments and other institutions may be invited to participate in this examination.

NAVAL SCIENCE AND TACTICS

PROFESSOR MCFEATERS, CAPTAIN, U. S. NAVY; ASSOCIATE PROFESSOR STUBBS, LIEUTENANT COMMANDER, U. S. NAVY (RET.); ASSISTANT PROFESSORS BLEVINS, LIEUTENANT, U.S.N.R.; MUFFLEY, LIEUTENANT, U.S.N.R.; MUTH, LIEUTENANT, U.S.N.R.; REDDING, LIEUTENANT, U.S.N.; TRIPLETT, LIEUTENANT, U.S.N.R.; INSTRUCTORS FORSHAG, LIEUTENANT (J.G.), U.S.N.R.; MARSHALL, LIEUTENANT (J.G.), U.S.N.R.; REIQUAM, ENSIGN, U.S.N.R.

1-2. Seamanship.—6 s.h.	STAFF
3. Damage Control and Engineering.—3 s.h.	STAFF
4-5. Navigation and Nautical Astronomy.—6 s.h.	STAFF
6. Naval Administration and Law.—3 s.h.	STAFF

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| 7. Tactics, Aviation, and Recognition.—3 s.h. | STAFF |
| 8. Ordnance.—3 s.h. | STAFF |
| 9. Gunnery.—3 s.h. | STAFF |
| 10. Communications.—3 s.h. | STAFF |
| 11. Refresher Course.—3 s.h. | STAFF |

PHILOSOPHY

PROFESSOR WIDGERY, CHAIRMAN; ASSOCIATE PROFESSOR MORGAN, DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR MCLARTY, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS GILBERT AND SMITH; AND ASSOCIATE PROFESSOR LEONARD

For courses marked with an asterisk there is a prerequisite of three hours of philosophy; admission otherwise by permission of the instructor. Sophomores may in general take courses prescribed for Juniors by permission of the instructor.

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| 48. Introduction to Logic and Scientific Method.—3 s.h. | ASSOCIATE PROFESSOR LEONARD |
| 95. Introduction to Ethics.—3 s.h. | PROFESSOR GILBERT |
| 96. The Development of American Philosophy.—3 s.h. | ASSOCIATE PROFESSOR LEONARD |
| 101. Introduction to Philosophy.—3 s.h. | PROFESSORS WIDGERY AND GILBERT |
| 103. Logic.—3 s.h. | ASSOCIATE PROFESSOR LEONARD |
| 104. Scientific Methodology.—3 s.h. | ASSOCIATE PROFESSOR LEONARD |
| 105. Introduction to the History of Philosophy: Ancient and Medieval.—3 s.h. | |
| 106. Introduction to the History of Philosophy: Modern.—3 s.h. | PROFESSOR WIDGERY |
| 108. Philosophical Ideas in Ancient Greek and Roman Culture.—3 s.h.
[Not offered in 1945-46] | |
| 114. Seventeenth-Century Philosophy, with Special Reference to Spinoza.—3 s.h. | PROFESSOR GILBERT |
| 119. Fundamentals of Christian Morality: An Introduction to Christian Ethics.—3 s.h. | |
| 121. The Philosophy of Plato.—3 s.h.
[Not offered in 1945-46] | |

FOR SENIORS AND GRADUATES

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| 201-202. The Philosophy of Art.—6 s.h.
[In alternate years—not offered in 1945-46] | PROFESSOR GILBERT |
| 203. The Philosophy of Conduct.*—3 s.h. | |
| 205. The Philosophy of History.—3 s.h.
[Not offered in 1945-46] | PROFESSOR WIDGERY |
| 208. Political Philosophy.—3 s.h.
[Not offered in 1945-46] | |

- 209-210. The Philosophy of Religion.—6 s.h.
[In alternate years—offered in 1945-46] PROFESSOR WIDGERY
211. Philosophy of Civilization.—3 s.h.
[Not offered in 1945-46]
- 213-214. History of Aesthetics.—6 s.h.
[In alternate years—offered in 1945-46] PROFESSOR GILBERT
215. Christian Ethics I.—3 s.h. PROFESSOR SMITH
216. Christian Ethics II.—3 s.h. PROFESSOR SMITH
217. The Philosophy of Aristotle.*—Prerequisite: course 105.
[Not offered in 1945-46]
224. Contemporary Philosophy.—3 s.h. PROFESSOR WIDGERY
[In alternate years—not offered in 1945-46]
- 231-232. Philosophy of Science.—6 s.h.
[Not offered in 1945-46] ASSOCIATE PROFESSOR LEONARD
236. Oriental Philosophy I.—3 s.h.
[In alternate years—not offered in 1945-46] PROFESSOR WIDGERY
238. Oriental Philosophy II.—3 s.h.
[In alternate years—not offered in 1945-46] PROFESSOR WIDGERY
241. Logic.—3 s.h. ASSOCIATE PROFESSOR LEONARD
242. Scientific Methodology.—3 s.h. ASSOCIATE PROFESSOR LEONARD
244. Nietzsche and the Nineteenth Century.—3 s.h.
[In alternate years—not offered in 1945-46]
248. Philosophy of Values.—First semester. 3 s.h.

RELATED COURSES IN OTHER DEPARTMENTS

- Education 200. Introduction to the Philosophy of Education.
- Greek 107-108. Plato.—Euripides.
- Greek 209-210. Plato.
- History 221-222. The Age of the Renaissance.
- Mathematics 287. Mathematical Logic.
- Mathematics 288. Foundations of Mathematics.
- Physics 213-214. Contemporary Physics.
- Political Science 223. Political Thought to the Seventeenth Century.
- Political Science 224. Modern Political Theory.
- Psychology 228. Psychology of Belief.

NAVY V-12 COURSES

PL1. Philosophy I.—A study of the philosophy of Plato and its relationship to Greek philosophy in general. 3 s.h.

PL2. Philosophy II.—Introduction to scientific philosophy. 3 s.h.

DEPARTMENTAL MAJOR

The student is required to take courses amounting to at least eighteen credit hours in the Department. Of these, six must be Philosophy 105-106, Introduction to the History of Philosophy; and six must be from courses in the 200 series. The student is advised to consult with an instructor in the Department as to the courses most suitable to fit in his general plan of study.

PHYSICS

PROFESSOR NIELSEN, CHAIRMAN; PROFESSOR HATLEY, DIRECTOR OF UNDERGRADUATE STUDIES; ASSOCIATE PROFESSOR CARPENTER, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS NORDHEIM, SPONER; ASSOCIATE PROFESSOR CONSTANT; ASSISTANT PROFESSOR BONNER; MESSRS. EASTHAM, EGERTON, GREENEWALD, MOORE, AND SELL; AND ASSISTANTS

- 1-2. Introductory Physics.—8 s.h. THE STAFF
- 17-18. Engineering Physics.—6 s.h. ASSISTANT PROFESSOR BONNER
- 51-52. General Physics.—Prerequisite: Mathematics 7-8 or equivalent.
8 s.h. PROFESSOR HATLEY; ASSOCIATE PROFESSOR CARPENTER;
AND ASSISTANT PROFESSOR BONNER
- 57-58. Engineering Physics.—6 s.h. ASSISTANT PROFESSOR BONNER
- 59-60. Elementary Atomic Physics.—Prerequisite: a year course of college physics and the calculus completed or taken concurrently. 6 s.h.
PROFESSOR NIELSEN
61. Mechanics.—Prerequisite: a year course of college physics and the calculus completed or taken concurrently. 3 s.h. PROFESSOR NORDHEIM
62. Heat.—Prerequisite: a year course in college physics and the calculus completed or taken concurrently. 3 s.h. THE STAFF
103. Electricity and Magnetism.—Prerequisite: a year course in college physics and the calculus. 4 s.h. ASSOCIATE PROFESSOR CONSTANT
104. Electrical Measurements.—3 s.h.
PROFESSOR NIELSEN AND ASSOCIATE PROFESSOR CONSTANT
106. Photography.—Prerequisite: a year course in college physics. 3 s.h.
ASSISTANT PROFESSOR BONNER
108. Physical Optics.—Prerequisite: a year course in college physics and the calculus. 4 s.h. PROFESSOR SPONER
- 213-214. Contemporary Physics.—6 s.h. ASSOCIATE PROFESSOR CONSTANT
219. Electron Tubes and Their Application.—4 s.h. PROFESSOR NIELSEN
- 221-222. Introduction to Theoretical Physics.—8 s.h.
ASSOCIATE PROFESSOR CONSTANT
- 225-226. Elementary Investigations.—3-6 s.h. THE STAFF

NAVY V-12 COURSES

PH1 and PH2. General Physics.—May be substituted for Physics 1-2, Physics 17-18 and Physics 57-58, or Physics 51-52.

PH3-4. Mechanics and Heat.—May be substituted for Physics 61 and Physics 62. 7 s.h.

PH5-6. Theory of Electrical Measurements.—May be substituted for Physics 103. 5 s.h.

*PH7. Electricity and Magnetism I.—3 s.h.

*PH10. Wave Motion and Sound.—5 s.h.

*PH11. Analytical Mechanics and Thermodynamics.—4 s.h.

PH12. Electron Physics.—May be substituted for Physics 213. 3 s.h.

PH13. Optics.—May be substituted for Physics 108. 5 s.h.

PH14-15. Electronics.—May be substituted for Physics 219. 7 s.h.

DEPARTMENTAL MAJOR

A. For the A.B. degree:

Prerequisites: Physics 1-2 or equivalent, and Mathematics 1-2 or 7-8.

Major Requirements: Eighteen to twenty-four hours in courses approved by the Department. (Students who have a considerable number of hours in a closely allied field may, with the approval of the Department, count Physics 51-52 or Physics 57-58 as a major requirement.)

B. For the B.S. degree:

Prerequisites: Physics 1-2, Chemistry 1-2 and Mathematics 7-8 or equivalent.

Major Requirements: Not less than twenty-four hours in courses approved by the Department, not less than six hours of which must be in the 200 group.

DEPARTMENTAL HONORS PROGRAM

Prerequisites: Physics 1-2, 51-52, or 57-58 and six semester hours additional work in physics above the Freshman level; Mathematics six semester hours and Chemistry 1-2.

Honors Program: Physics 103, 108, 219, and 221-222; Mathematics 51-52 and 131; electives subject to the approval of the Departmental Honors Committee, twenty-five semester hours or enough to satisfy the requirements for graduation, of which at least six semester hours must be either a course in Geology or an advanced course in Chemistry, Botany, Zoology, or Mathematics.

In addition, the student will arrange with his adviser for the performance of a limited number of elementary physical investigations. This will consist of both readings and experimental work and in general will constitute a survey of the classical and modern aspects of physics for which ten semester hours credit will be allowed.

At the end of both Junior and Senior years, the student will be given both an oral and a written examination in the field of physics.

POLITICAL SCIENCE

PROFESSOR WILSON, CHAIRMAN; PROFESSOR RANKIN, ACTING CHAIRMAN AND DIRECTOR OF UNDERGRADUATE STUDIES; ASSOCIATE PROFESSOR GIBSON, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS COLE AND VON BECKERATH; ASSOCIATE PROFESSOR SHIPMAN; ASSISTANT PROFESSORS LINEBARGER, HALLOWELL, SIMPSON, AND WALTER

21. Principles of Government.—3 s.h.

PROFESSOR VON BECKERATH; ASSOCIATE PROFESSOR GIBSON;
ASSISTANT PROFESSOR SIMPSON

22. Governmental Problems in International Relations.—3 s.h.

PROFESSOR VON BECKERATH; ASSOCIATE PROFESSOR GIBSON;
ASSISTANT PROFESSOR SIMPSON

61-62. American Government and Politics.—6 s.h.

PROFESSORS COLE, RANKIN AND WILSON; ASSOCIATE PROFESSORS
GIBSON AND SHIPMAN; ASSISTANT PROFESSORS
HALLOWELL, LINEBARGER, AND SIMPSON

111. Contemporary Problems in Far Eastern Politics.—3 s.h.

[Not offered in 1945-46] ASSISTANT PROFESSOR LINEBARGER

125. American Political Parties and Practical Politics.—3 s.h.

ASSISTANT PROFESSOR SIMPSON

135. The British Dominions.—3 s.h.

PROFESSOR COLE

136. Major European Governments.—3 s.h.

PROFESSOR COLE AND ASSISTANT PROFESSOR HALLOWELL

141. Public Regulation.—3 s.h. ASSISTANT PROFESSOR WALTER
- 151-152. Spanish-American Political Institutions.—6 s.h.
[Not offered in 1945-46] ASSOCIATE PROFESSOR GIBSON
172. Government and Agriculture.—3 s.h. PROFESSOR VON BECKERATH
174. Politics and Economics.—3 s.h. PROFESSOR VON BECKERATH
207. American Constitutional Law and Theory.—3 s.h.
PROFESSOR WILSON
209. State and Local Government in the United States.—3 s.h.
PROFESSOR RANKIN
211. Political Institutions of the Far East.—3 s.h.
ASSISTANT PROFESSOR LINEBARGER
212. International Politics of the Far East.—3 s.h.
ASSISTANT PROFESSOR LINEBARGER
223. Political Thought to the Seventeenth Century.—3 s.h.
PROFESSOR WILSON; ASSISTANT PROFESSOR HALLOWELL
224. Modern Political Theory.—3 s.h.
PROFESSOR WILSON; ASSISTANT PROFESSOR HALLOWELL
225. Comparative Government.—3 s.h.
PROFESSOR COLE; ASSISTANT PROFESSOR HALLOWELL
226. Comparative Government.—3 s.h.
PROFESSOR COLE; ASSISTANT PROFESSOR HALLOWELL
- 227-228. International Law.—6 s.h. PROFESSOR WILSON
229. Recent and Contemporary Political Theory.—3 s.s. PROFESSOR COLE
230. American Political Institutions.—3 s.h. PROFESSOR RANKIN
- 241-242. The Administrative Process.—6 s.h.
ASSISTANT PROFESSOR WALTER
244. Administrative Law.—3 s.h. ASSISTANT PROFESSOR WALTER
252. Spanish-American Constitutionalism.—3 s.h.
ASSOCIATE PROFESSOR GIBSON
271. Sociopolitics and Capitalism.—3 s.h. PROFESSOR VON BECKERATH
291. Municipal Government.—3 s.h.
292. Municipal Administration.—3 s.h. PROFESSOR RANKIN

DEPARTMENTAL MAJOR

Prerequisite: Political Science 61-62.

Major Requirements: Eighteen semester hours of work in the Department above course 61-62, including at least nine semester hours in Senior-Graduate courses.

PSYCHOLOGY

PROFESSOR LUNDHOLM, CHAIRMAN; ASSISTANT PROFESSOR KEMP, DIRECTOR OF UNDERGRADUATE STUDIES; PROFESSORS RHINE AND ZENER; ASSOCIATE PROFESSOR ADAMS; VISITING ASSOCIATE PROFESSOR CATTELL; DR. KOCH

91. Introduction to Psychology.—3 s.h.
PROFESSORS LUNDHOLM AND ZENER; VISITING ASSOCIATE PROFESSOR CATTELL; DR. KOCH
96. Applied Psychology.—3 s.h.

103. Conation and Our Conscious Life.—3 s.h. PROFESSOR LUNDHOLM
104. Comparative Psychology.—3 s.h. ASSOCIATE PROFESSOR ADAMS
[Not offered in 1945-46]
106. Abnormal Psychology. PROFESSOR LUNDHOLM
110. Applied Social Psychology.—3 s.h. DR. KOCH
[Not offered in 1945-46]
111. Advanced General Psychology: Learning, Memory, Perception, Thinking.—3 s.h. PROFESSOR ZENER
[Not offered in 1945-46]
112. Advanced General Psychology: Action, Motivation, Emotion.—3 s.h. PROFESSOR ZENER
[Not offered in 1945-46]
115. Psychology of Personality.—3 s.h. PROFESSOR RHINE
116. Psychology of Adjustment.—3 s.h. PROFESSOR RHINE
122. Psychology of Aesthetics.—3 s.h. PROFESSOR LUNDHOLM
128. Psychology of Belief.—3 s.h. PROFESSOR LUNDHOLM
[Not offered in 1945-46]
204. Motivation and Learning.—3 s.h. PROFESSOR ZENER
206. Social Psychology.—3 s.h. ASSOCIATE PROFESSOR ADAMS, DR. KOCH
[Offered in fall semester]
207. Psychology of Memory, Thinking, Perceiving.—3 s.h. PROFESSOR ZENER
209. Experimental Methods in Human Psychology.—4 s.h. PROFESSOR ZENER
[Not offered in 1945-46]
212. Physiological Psychology.—3 s.h. ASSISTANT PROFESSOR KEMP
[Not offered in 1945-46]
215. Developmental Psychology.—3 s.h. ASSOCIATE PROFESSOR ADAMS
[Not offered in 1945-46]
221. The Experimental and Statistical Study of Personality.—3 s.h. VISITING ASSOCIATE PROFESSOR CATTELL
[Not offered in 1945-46]
223. Abnormal Psychology.—3 s.h. PROFESSOR LUNDHOLM
226. Psychology: Historical and Theoretical.—3 s.h. PROFESSOR ZENER
[Not offered in 1945-46]
- 231-232. Introduction to Research.—2 or 3 s.h. for one semester.
PROFESSORS LUNDHOLM, RHINE AND ZENER; ASSOCIATE PROFESSOR
ADAMS AND VISITING ASSOCIATE PROFESSOR CATTELL; DR. KOCH

NAVY V-12 COURSES

- PS1. Psychology I—General.—May be substituted for Psychology 91.
3 s.h.
- PS2. Psychology II—Abnormal.—May be substituted for Psychology 106.
3 s.h.
- PS3. Social Psychology.—May be substituted for Psychology 110. 3 s.h.

DEPARTMENTAL MAJOR

Prerequisites: Psychology 91 and Zoology 1 and 2 or equivalent in biology.

Major Requirements: Eighteen semester hours in psychology in addition to Psychology 91, at least six semester hours of which must be taken in Senior-Graduate courses.

DEPARTMENTAL HONORS PROGRAM

Departmental Honors in psychology are governed by the general rules covering all Honors programs.

Prerequisite: The minimum requirement for admission to Honors in psychology is the completion of Psychology 91 with a grade of "B" or higher. Completion of Zoology 1-2 is strongly recommended.

Departmental Honors Program:

(a) Honors Readings.—Tutorial work with a member of the Department designated by the Honors Committee. This work shall be counted as the equivalent of three semester hours in the Junior and six semester hours in the Senior year.

(b) Courses in Psychology.—At least six courses in the Department in addition to the prerequisite (of which at least three must be of Senior-Graduate level).

(c) Courses in Related Fields.—To complete the total of sixty semester hours. All courses are to be chosen by consultation with the Departmental Honors Adviser.

(d) At the end of the Senior year.—A final written and oral examination on the fields of psychology chosen, and an experimental or critical paper on a selected problem.

RELIGION

PROFESSOR MYERS, CHAIRMAN AND DIRECTOR OF UNDERGRADUATE STUDIES; PROFESSOR PETRY, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS CANNON, CLARK, ORMOND, SPENCE, AND STINESPRING; ASSOCIATE PROFESSOR OUTLER; VISITING ASSOCIATE PROFESSOR GOLDIN, ASSISTANT PROFESSOR CRUM; AND MRS. SPENCE

1. The English Bible.—3 s.h. PROFESSORS MYERS AND ORMOND; ASSISTANT PROFESSOR CRUM; AND MRS. SPENCE

2. The English Bible.—3 s.h.
ASSISTANT PROFESSOR CRUM AND MRS. SPENCE

51. The History of the Hebrew People.—3 s.h.
PROFESSORS MYERS AND SPENCE; ASSOCIATE PROFESSOR OUTLER; ASSISTANT PROFESSOR CRUM; AND MRS. SPENCE

52. New Testament Life and Literature.—3 s.h.
PROFESSOR MYERS; ASSISTANT PROFESSOR CRUM; AND MRS. SPENCE

101. The Social Teachings of the Prophets and Jesus.—3 s.h.
PROFESSOR ORMOND

102. The Christian Church in the Social Order.—3 s.h. PROFESSOR ORMOND

103. The Prophets of the Old Testament.—3 s.h. PROFESSOR MYERS

104. The History and Religion of the Jews to the Roman Period.—3 s.h.
PROFESSOR MYERS

114. The Life and Teachings of Jesus.—3 s.h. PROFESSOR MYERS

117. The History and Thought of Judaism I.—3 s.h.
VISITING ASSOCIATE PROFESSOR GOLDIN

118. The History and Thought of Judaism II.—3 s.h.
VISITING ASSOCIATE PROFESSOR GOLDIN

163. Religious Education of Children.—3 s.h. MRS. SPENCE

167. Contemporary Religious Problems.—3 s.h. PROFESSOR SPENCE

168. Masterpieces of Great Religious Literature.—3 s.h. PROFESSOR SPENCE

169. Character Problems.—3 s.h. ASSISTANT PROFESSOR CRUM
170. Religion and the Family.—3 s.h. ASSISTANT PROFESSOR CRUM
181. The Nature and Early Development of Religion.—3 s.h.
PROFESSOR CANNON
182. Living Religions of the World.—3 s.h. PROFESSOR CANNON
(Old number 282.)
183. The Religious and Social Contributions of the World's Great Religions.—3 s.h. PROFESSOR SPENCE
191. Fundamentals of Christian Morality: An Introduction to Christian Ethics.—3 s.h. ASSISTANT PROFESSOR McLARTY
193. A Study of Materials Suitable for Public School Courses in Religion and Ethics, including the English Bible and other religious literature. 3 s.h. ASSISTANT PROFESSOR CRUM
- 201-202. First Hebrew.—6 s.h. PROFESSOR STINESPRING
- 211-212. Hellenistic Greek.—6 s.h. PROFESSOR CLARK
265. Religious Drama.—3 s.h. PROFESSOR SPENCE
268. Religious Drama Construction and Production.—3 s.h. PROFESSOR SPENCE

DEPARTMENTAL MAJOR

Prerequisite: Religion 1-2, or 51-52.

Major Requirements: A major in the Department of Religion consists of eighteen semester hours of work, exclusive of courses primarily for Freshmen, selected with the approval of the instructor under whose supervision the student does his major work.

DEPARTMENTAL HONORS PROGRAM

General Rules:

I. The Departmental Honors Program constitutes the work of the Honors student during the Junior and Senior years. This program shall be the equivalent of sixty semester hours of work.

II. The minimum amount of work that may be taken in the Department of Religion shall be the equivalent of twenty-four semester hours, and the maximum shall be the equivalent of thirty-six semester hours. Of this, the work done in the Honors tutorials shall count fifteen hours, six hours for the Junior year, six hours for the Senior year, and three hours for the comprehensive examination at the end of the Senior year.

III. The related work, which shall constitute at least two fifths of the Honors program, that is, the equivalent of twenty-four semester hours, must be distributed among not less than two departments, unless the departmental committee gives special permission for the student to take his related work in one department.

Prerequisite:

The minimum requirement for admission to Honors in Religion is the completion of a course in Religion during the Sophomore year on which the student makes at least a grade of "B."

Normal Program:

The normal program for the Honors student in the Junior year shall consist of the Honors tutorial, two courses in the Department of Religion, and two courses in related departments; in the Senior year the work shall consist of the Honors tutorial, one and one-half courses in Religion, and two in related departments.

General Honors Examinations:

Two comprehensive written examinations and a supplementary oral examination will be held at the end of the Senior year to test the student's knowledge of the special field in which he has done his Honors work.

ROMANCE LANGUAGES

PROFESSOR WEBB, CHAIRMAN AND DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR DAVIS, SUPERVISOR OF FRESHMAN INSTRUCTION IN FRENCH AND SPANISH; PROFESSORS COWPER, JORDAN, AND LUNDEBERG; ASSOCIATE PROFESSOR WALTON; ASSISTANT PROFESSORS BRIDGERS, DOW, QUINN, RAYMOND, REID, AND YOUNG; MRS. DILLINGHAM, MME. DOW; AND ASSISTANTS

FRENCH**1-2. Elementary French.—6 s.h.**

PROFESSOR WEBB; ASSISTANT PROFESSORS DOW AND RAYMOND

3-4. French Prose.—Prerequisite: French 1 and 2, or two years of high-school French. 6. s.h.

PROFESSORS COWPER AND JORDAN; ASSOCIATE PROFESSOR WALTON; ASSISTANT PROFESSOR DOW

51-52. Introduction to French Literature.—Prerequisite: French 3 and 4 or equivalent. 6 s.h.

PROFESSORS COWPER, JORDAN AND WEBB; ASSOCIATE PROFESSOR WALTON; ASSISTANT PROFESSORS DOW AND YOUNG

55. Exercises in Spoken French.—1 s.h.

ASSISTANT PROFESSOR DOW AND MME. DOW

56. Exercises in Spoken French.—1 s.h.

ASSISTANT PROFESSOR DOW AND MME. DOW

107. French Composition.—3 s.h.

PROFESSOR COWPER AND ASSISTANT PROFESSOR RAYMOND

108. The French Romantic Movement.—3 s.h.

PROFESSOR COWPER AND ASSISTANT PROFESSOR RAYMOND

110. Poems of Victor Hugo.—3 s.h.

ASSISTANT PROFESSOR DOW

111. French Drama since 1850.—3 s.h.

ASSISTANT PROFESSOR YOUNG

[Not offered in 1945-46]

112. French Drama since 1850.—3 s.h.

ASSISTANT PROFESSOR YOUNG

[Not offered in 1945-46]

113. French Drama of the Seventeenth Century.—3 s.h.

ASSISTANT PROFESSOR RAYMOND

115. Masterpieces of Balzac.—3 s.h.

ASSISTANT PROFESSOR BRIDGERS

116. Balzac and His Age.—3 s.h.^e

ASSISTANT PROFESSOR BRIDGERS

127. Advanced French Composition.—Prerequisite: French 107 or equivalent. 3 s.h.

MME. DOW

128. Advanced French Composition.—Prerequisite: French 107 or equivalent. 3 s.h.

MME. DOW

129-130. French Readings on Great Men and Events in the French Tradition.—Prerequisite: French 51-52 or equivalent. 6 s.h.

ASSOCIATE PROFESSOR WALTON

213. French Classicism.—3 s.h.

ASSOCIATE PROFESSOR WALTON

214. French Classicism.—3 s.h.

ASSOCIATE PROFESSOR WALTON

215-216. The Modern French Novel.—6 s.h.

PROFESSOR JORDAN

217. French Phonetics.—Prerequisite: 3 s.h. from courses 107 or 127-128.
3 s.h. PROFESSOR WEBB
(Second semester)
218. Materials and Methods.—Prerequisite: French 107. 3 s.h.
PROFESSOR WEBB
219. Old French.—3 s.h. PROFESSOR COWPER
220. Old French.—3 s.h. PROFESSOR COWPER
227. French Poetry since Théophile Gautier.—3 s.h.
ASSOCIATE PROFESSOR WALTON
232. Rousseau and the Beginnings of Romanticism.—3 s.h.
PROFESSOR COWPER
233. Main Currents of Modern French Literature.—3 s.h.
[Not offered in 1945-46] PROFESSOR WEBB

ITALIAN

- 181-182. Italian. PROFESSOR WEBB

ROMANCE LITERATURE IN TRANSLATION

191. Romance Literature of the Renaissance in Translation.—3 s.h.
ASSISTANT PROFESSOR BRIDGERS
192. Roman Literature of the Renaissance in Translation.—3 s.h.
ASSISTANT PROFESSOR BRIDGERS

SPANISH

- 1-2. Elementary Spanish.—6 s.h.
ASSISTANT PROFESSORS BRIDGERS, DOW AND YOUNG; MRS.
DILLINGHAM, MME. DOW; AND ASSISTANTS
- 1-2. Special Oral Section.—6 s.h. MRS. DILLINGHAM
- 3-4. Intermediate Spanish.—Prerequisite: Spanish 1-2 or two years of
high-school Spanish. 6 s.h.
ASSISTANT PROFESSORS DAVIS, DOW, RAYMOND AND
YOUNG; MRS. DILLINGHAM AND MME. DOW
- 3-4. Special Oral Section.—6 s.h. MRS. DILLINGHAM
65. Introduction to Modern Spanish Literature.—Prerequisite: Spanish
3-4 or equivalent. 3 s.h. PROFESSOR LUNDEBERG; ASSISTANT PROFESSORS
BRIDGERS, DAVIS AND RAYMOND
66. Introduction to Spanish Literature of the Golden Age.—Prerequisite:
Spanish 65 or equivalent. 3 s.h.
PROFESSOR LUNDEBERG; ASSISTANT PROFESSORS
DAVIS AND RAYMOND
68. Introduction to Spanish-American Literature.—3 s.h.
ASSISTANT PROFESSOR BRIDGERS
71. Elementary Conversation.—Prerequisite: completion of Spanish 4 or
equivalent and approval of instructor. 1 s.h.
ASSISTANT PROFESSOR BRIDGERS; MRS. DILLINGHAM
72. Elementary Conversation.—1 s.h.
ASSISTANT PROFESSOR BRIDGERS; MRS. DILLINGHAM
155. Survey of Spanish-American Literature.—Prerequisite: Spanish 65-66
or special permission. 3 s.h. PROFESSOR LUNDEBERG
156. Survey of Spanish-American Literature.—Prerequisite: Spanish 65-
66 or special permission. 3 s.h. PROFESSOR LUNDEBERG

157-158. *The Modern Spanish Theater*.—Prerequisite: Spanish 65-66 or [Not offered in 1945-46]

171. *Intermediate Conversation*.—Prerequisite: Spanish 71-72 or equivalent. 1 s.h. PROFESSOR LUNDEBERG

172. *Intermediate Conversation*.—1 s.h. PROFESSOR LUNDEBERG

253. *Spanish Phonetics*.—Prerequisite: Spanish 65-66. 3 s.h. PROFESSOR LUNDEBERG

255-256. *Studies in Spanish-American Literature*.—6 s.h. [Not offered in 1945-46]

257-258. *Old Spanish Language and Literature*.—6 s.h. ASSISTANT PROFESSOR DAVIS

260. *Advanced Syntax and Composition*.—Prerequisite: Spanish 65-66. 3 s.h. PROFESSOR LUNDEBERG

261-262. *Modern Spanish Novel*.—Prerequisite: 6 s.h. from courses 155 to 158 inclusive, or 65-66 with permission. 6 s.h. PROFESSOR LUNDEBERG

265. *Golden Age Literature: Cervantes*.—Prerequisite: 6 s.h. from courses 155 to 158 inclusive or 65-66 with permission. 3 s.h. PROFESSOR LUNDEBERG

266. *Golden Age Literature: Golden Age Drama*.—Prerequisite: 6 s.h. from courses 155 to 158 inclusive, or 65-66 with permission. 3 s.h. PROFESSOR LUNDEBERG

NAVY V-12 COURSES

Foreign Language 1-2 may be substituted for a first-year language.

Foreign Language 3-4 may be substituted for a second-year language.

Foreign Language 5, 6, and 7 may be substituted for third-year courses.

DEPARTMENTAL MAJOR

Prerequisites: French 1-2, 3-4, or equivalent, for French. Spanish 1-2, 3-4, or equivalent, for Spanish.

Major Requirements: In French, twenty-four semester hours of work must be completed in courses above the Freshman level, and must include: (a) six semester hours from the group 107, 127-128, 217; (b) six semester hours of literature in courses numbered 213 to 233.

In Spanish, twenty-four semester hours must be completed as follows: twelve semester hours in the courses 65-68, 155-156, 157-158; twelve semester hours from the group 253-266.

Students desiring the recommendation of the Department for the teaching of French will take, in addition, course 218.

DEPARTMENTAL HONORS PROGRAM

Prerequisites: Completion of 51-52 or 57-58 by the end of the Sophomore year in a manner satisfactory to the Departmental Committee.

Honors work in French includes:

(a) Training in the use of written and oral French; composition, résumé, and literary commentary in French. Three semester hours each semester of Junior and Senior years, total twelve semester hours.

(b) Readings in French literature.

(1) Survey of chief authors. Three semester hours each semester or twelve semester hours.

(2) Genre studies beginning with the modern novel. Three semester hours each semester or twelve semester hours.

(c) Comprehensive examination.

(d) Related work: Twenty-four semester hours.

SOCIOLOGY AND ANTHROPOLOGY

PROFESSOR JENSEN, DIRECTOR OF GRADUATE AND UNDERGRADUATE STUDIES;
PROFESSOR HART; ASSOCIATE PROFESSORS GILLIN AND THOMPSON

91-92. General Sociology.—6 s.h.

PROFESSOR JENSEN; ASSOCIATE PROFESSOR GILLIN

101. General Sociology.—5 s.h.

[Not offered in 1945-46]

102. General Sociology.—5 s.h.

109. Sociology of the South.—Prerequisite: course 91-92, 101 or 131-132.
3 s.h. ASSOCIATE PROFESSOR THOMPSON

111. Introduction to Child Welfare.—Prerequisite: course 91-92, 101 or
131-132. 3 s.h. PROFESSOR JENSEN

114. Race Relations.—Prerequisite: course 91-92, 101 or 131-32. 3 s.h.
ASSOCIATE PROFESSOR THOMPSON

122. Personality and Culture.—Prerequisite: course 91-92, 101 or 131-132.
3 s.h. PROFESSOR HART

121. Personality and Human Values.—Prerequisite: course 91-92, 101 or
131-132. 3 s.h. PROFESSOR HART

131. General Anthropology.—3 s.h. ASSOCIATE PROFESSOR GILLIN

132. Cultural Anthropology.—Prerequisite: course 91-92, 101 or 131. 3 s.h.
ASSOCIATE PROFESSOR GILLIN

205. Social Pathology.—Prerequisite: course 91-92, 101 or 131-132. 3 s.h.
PROFESSOR JENSEN

206. Criminology.—Prerequisite: course 91-92, 101 or 131-132. 3 s.h.
PROFESSOR JENSEN

212. Child Welfare.—Prerequisite: course 91-92, 101 or 131-132. 3 s.h.
[Offered in Summer Session, 1945] PROFESSOR JENSEN

213. Constructive Social Policies.—Prerequisite: course 91-92, 101 or 131-
132. 2 s.h. PROFESSOR JENSEN
[Not offered in 1945-46]

215. Rural Sociology.—Prerequisite: course 91-92, 101 or 131-132. 3 s.h.
ASSOCIATE PROFESSOR THOMPSON

216. Urban Sociology.—Prerequisite: course 91-92, 101 or 131-132. 3 s.h.
ASSOCIATE PROFESSOR THOMPSON

217. Race and Culture.—Prerequisite: course 91-92, 101 or 131-132. 3 s.h.
ASSOCIATE PROFESSOR THOMPSON

218. Community and Society.—Prerequisite: course 91-92, 101 or 131-132.
3 s.h. ASSOCIATE PROFESSOR THOMPSON

225. Statistical Methods in Sociology.—Prerequisite: course 91-92, 101 or
131-132. 3 s.h. PROFESSOR HART

227. Emigration and Immigration.—Prerequisite: course 91-92, 101 or
131-132. 3 s.h. PROFESSOR JENSEN
[Not offered in 1945-46]

236. Social Ethics.—3 s.h. PROFESSOR HART
237. Indians of North America.—Prerequisite: course 131. 3 s.h.
[Not offered in 1945-46] ASSOCIATE PROFESSOR GILLIN
238. Anthropological Backgrounds of Latin America.—Prerequisite: course 131. 3 s.h. ASSOCIATE PROFESSOR GILLIN
239. Acculturation and Cultural Synthesis.—3 s.h. ASSOCIATE PROFESSOR GILLIN
240. The Peoples of Africa.—Prerequisite: course 131. 3 s.h.
[Not offered in 1945-46] ASSOCIATE PROFESSOR GILLIN
242. Marriage and the Family.—Prerequisite: course 91-92, 101 or 131-132. 3 s.h. PROFESSOR HART
251. Special Problems in Social Pathology.—Prerequisite: course 205 or its equivalent. 1 to 3 s.h. PROFESSOR JENSEN
252. Education and Social Control.—Prerequisite: course 91-92, 101 or 131-132. 2 s.h.
[Not offered in 1945-46]
281. Public Opinion.—3 s.h. PROFESSOR JENSEN
[Not offered in 1945-46]
299. Marriage and Family Counseling.—Prerequisite: course 91-92, 101, 131-132, 236, or equivalent. 2 s.h. PROFESSOR HART

NAVY V-12 COURSES

- S1. Sociology I.—Anthropology. 3 s.h.
- S2. Sociology II.—May be substituted for Sociology 91. 3 s.h.

DEPARTMENTAL MAJOR

Students desiring to take a major in sociology are required to complete course 91-92 or 101 or 102 or 131-132 and twelve additional hours in the Department, at least six of which must be from courses numbered 200 or over.

ZOOLOGY

PROFESSOR GRAY, CHAIRMAN AND DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR BOOKHOUT, SUPERVISOR OF FRESHMAN INSTRUCTION; ASSISTANT PROFESSOR JEFFERS, SUPERVISOR OF FRESHMAN INSTRUCTION (WOMAN'S COLLEGE); PROFESSORS HALL, HARGITT, PEARSE; ASSISTANT PROFESSOR JOHNSON; DRs. WHARTON, WILSON, AND MAGALHAES; AND ASSISTANTS

UNDERGRADUATE COURSES

1. General Zoology.—4 s.h. ASSISTANT PROFESSOR JEFFERS; PROFESSOR HARGITT; AND ASSISTANTS
2. Animal Biology.—Prerequisite: Zoology 1. 4 s.h.
ASSISTANT PROFESSOR JEFFERS; PROFESSOR HARGITT;
DR. MAGALHAES; AND ASSISTANTS

53. Comparative Vertebrate Anatomy.—Prerequisites: Zoology 1 and 2. 4 s.h.
 PROFESSOR GRAY; DR. MAGALHAES; ASSISTANT PROFESSOR JOHNSON

92. General Embryology.—Prerequisite: Zoology 53. 4 s.h.
 ASSISTANT PROFESSORS JEFFERS AND JOHNSON

109. Evolution.—Prerequisite: Two years of Zoology. 2 s.h.
 ASSISTANT PROFESSOR JOHNSON

110. Introduction to Genetics.—Prerequisite: one year of Zoology. 2 s.h.
 ASSISTANT PROFESSOR JOHNSON

151. Comparative Physiology.—Prerequisite: Zoology 53. 4 s.h.
 DR. MAGALHAES

156. Vertebrate Histology.—Prerequisite: Zoology 53. 4 s.h.
 PROFESSOR HARGITT

161. Animal Parasites.—Prerequisite: one year of Zoology. 4 s.h.
 PROFESSOR PEARSE

FOR SENIORS AND GRADUATES

204. Advanced Parasitology.—Prerequisite: Zoology 161. 4 s.h.
 PROFESSOR PEARSE

219-220. Special Problems.—4 s.h. STAFF

222. Entomology.—Prerequisite: one year of Zoology. 4 s.h.
 PROFESSOR GRAY

224. Vertebrate Zoology.—Prerequisite: Zoology 53. 4 s.h.
 PROFESSOR GRAY

229. Endocrinology.—Prerequisites: Zoology 53 and 92. 4 s.h.
 ASSISTANT PROFESSOR JEFFERS

256. Seminar: Current Developments in Physiological Zoology.—Prerequisite: Zoology 151. 2 s.h.

274. Invertebrate Zoology.—Prerequisites: Zoology 1 and 2. 4 s.h.
 ASSISTANT PROFESSOR BOOKHOUT

276. Protozoology.—Prerequisites: Zoology 1 and 2. 4 s.h.
 ASSISTANT PROFESSOR BOOKHOUT

RELATED COURSES, ONE OF WHICH MAY BE COUNTED TOWARD A MAJOR IN ZOOLOGY

Botany 101. Principles of Heredity.—3 or 4 s.h.
 ASSISTANT PROFESSOR PERRY

Botany 103. General Bacteriology.—4 s.h. PROFESSOR WOLF

Botany 202. Genetics.—4 s.h. ASSISTANT PROFESSOR PERRY

NAVY V-12 COURSES

B1 and B2. Biology I and Biology II.—May be substituted for Botany 1-2 or Zoology 1-2.

B3. Biology III. General Embryology.—May be substituted for Zoology 92. 5 s.h.

B4. Biology IV. Comparative Anatomy.—May be substituted for Zoology 53. 5 s.h.

DEPARTMENTAL MAJOR

Prerequisites: Zoology 1 and 2.

Major Requirements: Twenty-four semester hours including courses 53, 92, 151. The remaining twelve hours may be from any other courses for which the student is eligible.

DEPARTMENTAL HONORS PROGRAM

For admission to candidacy for Honors in zoology a student is expected to have completed zoology courses 1, 2, 53, 92 and not less than eight semester hours of chemistry.

Honors work consists of regular courses and independent study; the program, however, will not be the same for all students. Zoology 151 is required of all zoology majors; the number and nature of other courses to be taken in zoology and in related subjects will depend upon the needs and interests of the student. The usual number of semester courses will be four to six in zoology and six in other subjects in the Natural Science Group.

In addition to regular courses each student shall read in such fields as history of biology and zoological theories, or in special fields, and shall undertake a special research problem under the direction of some member of the Staff whom the student may select. The student may be asked to prepare written reports on his readings and must present a written report on his research problem. Readings and problem count for nine to twelve semester hours.

At the end of the Junior year an examination will be given to test the student's ability to correlate material and to determine his fitness to continue in the Honors Group. At the end of the Senior year a special comprehensive examination covering the entire field of study must be passed.

THE COLLEGE OF ENGINEERING

ADMISSION

Admission to the College of Engineering of Duke University is on a selective basis, dependent upon the ability, attainments, and character of the applicant. No student is admitted until the Council on Admissions has received for him a scholastic record from school or college, a certificate of vaccination and of good health, and satisfactory evidence of good character and ability. Prospective students and relatives are invited to visit the University and the College of Engineering in particular. This would be advantageous to the applicant since it would enable him to acquaint himself with the facilities of the University, and to discuss possible courses of study.

Certain days are announced in the University Calendar each year for the registration, classification, and sectioning of students. Those students who are admitted later than the dates announced must pay to the Treasurer \$5.00 additional for the privilege of matriculating.

An applicant for admission to the Freshman Class in engineering must have completed at least fifteen units of preparatory work, partly in required and partly in elective subjects. A unit represents a year of work in a subject in an accredited secondary school, provided the work done in that subject is approximately one fourth of the annual amount of work regularly required in the school.

The subjects in which this credit may be offered and the maximum amount of credit acceptable in each subject are given in the following table:

UNITS		UNITS	
English	4	Botany	1
Latin	4	Zoology	1
Greek	3	General Biology	1
German	3	Physical Geography	1
French	3	General Science	1
Spanish	3	Agriculture	2
Mathematics	4	Mechanical Drawing	2
History and Civics	4	Woodwork, Forging, and	
Physics	1	Machine Work	2
Chemistry	1	Household Economics	2
		Commercial Subjects	3

For a detailed explanation of the units in the table above, see the definitions as set forth by the Southern Association of Colleges and Secondary Schools and other regional associations.

ADMISSION BY CERTIFICATE

Applicants able to submit certificates of proficiency from accredited schools in subjects accepted for admission to the Freshman Class will be

admitted without examination. These certificates must be properly made out on the regular blanks furnished by the University, signed by the principal of the school from which the applicant comes, and presented before or at the opening of the academic year. The applicant must have completed the course of the school from which he comes.

At least nine and one half of the fifteen units required for admission must come from the following:

Required Units

English	3 units
A Foreign Language	2 units
*Science	1 unit
History	1 unit
†Algebra	1½ or 2 units
Plane Geometry	1 unit

Elective Units

In addition to the above required units, sufficient elective units must be offered to make a total of fifteen. It is recommended that these electives be chosen from the following list:

Algebra	½ unit
Solid Geometry	½ unit
Trigonometry	½ unit
‡German or French or Latin or Spanish or Greek	1 to 4 units
History or Civics (not the required unit)	1 to 3 units
Physics or Chemistry or Biology (not the required unit)	1 to 3 units

ADMISSION BY EXAMINATION

Students who present fifteen units for admission from schools not accredited by the University, and students who present the proper units but whose grades are not acceptable, are required to validate their units by entrance examinations in English and in mathematics and such other tests as the University may prescribe, including the test required by the North Carolina College Conference.

Students who have not the required units in English or in mathematics but who are otherwise acceptable must, before admission, clear this deficiency by entrance examinations.

ADMISSION TO ADVANCED STANDING

Students may be admitted to advanced standing from other approved institutions under the following conditions; all applicants must have fulfilled the equivalent of the requirements for admission to the Freshman

* Wherever possible, physics or chemistry should be offered for this requirement.

† Examination required to validate offering.

‡ One elective unit in any of the above languages will be accepted for admission provided the language requirement has been satisfied without it. As many as four units will be accepted in any one of these languages.

Class, must present official certificates of all work done in other institutions, and have honorable dismissal from the institutions they previously attended.

Applicants for advanced standing should present, so far as possible, subjects corresponding to those required at Duke University. Students admitted to advanced standing may not during their first semester elect more than the minimum number of hours required of the class which they enter except by permission of the Dean. Further, in addition to other requirements, a minimum of one full year in residence at Duke University with the satisfactory completion of at least thirty semester hours of work approved for Seniors, with an average grade of "C," is required of all candidates for the Bachelor's degree.

Students who have transferred from other colleges must, in order to make their provisional classification final, pass during their first year of residence not less than the equivalent of four year-courses with an average grade of "C" or higher.

The date for the registration and classification of students with advanced standing from other institutions is announced in the University Calendar. Students who are admitted later than this date are required to pay to the Treasurer \$5.00 additional for the privilege of matriculating.

FRESHMAN WEEK

The week immediately preceding the opening of College is set aside for the induction of Freshmen. During this period health examinations, psychological tests, and placement tests are given in English and mathematics. Sectioning in these two subjects is based on the grades made on the placement tests. The Freshman are divided into groups for instruction in the use of the Library, in the regulations of the student body, and in all matters pertaining to the adjustment of the individual to a new environment. Attendance upon these exercises is required of all Freshmen.

SPECIAL STUDENTS

Students of mature age not fully prepared to enter the Freshman Class may be admitted as special students and allowed to enroll for such work as they are prepared to carry. Further, they are required to take fifteen hours of classwork a week.

FEES AND EXPENSES

Information as to fees and expenses and room, accommodations apportioned for Trinity College and the Woman's College, elsewhere in the catalogue under Fees and Expenses.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE IN CIVIL, ELECTRICAL, OR MECHANICAL ENGINEERING

GENERAL STATEMENT

The studies for the degree of Bachelor of Science in Civil, Electrical, or Mechanical Engineering are designed for students who are preparing for civil, electrical, and mechanical or aeronautical engineering as a profession and lead to the following degrees: B.S. in C.E., B.S. in E.E., and B.S. in M.E. All curricula of the College of Engineering are fully accredited by the Engineers' Council for Professional Development, recognized accrediting agency in the field of engineering education.

Each of these degrees requires one hundred and thirty-eight semester hours of work of which one hundred and twenty must be completed with an average grade of "C." Six semester hours of electives must be taken in the Department of Economics or Political Science. If a foreign language is elected, it must be taken two years unless a student has sufficient entrance credits to enable him to pursue a more advanced course.

Prospective students should note that immediately after the final examinations in May or June a three-weeks course in surveying is given under the direction of the Summer Session. This course is required of all civil engineering students at the end of their Freshman year and is required of all other engineering students before graduation.

Courses described in the Navy V-12 Bulletin No. 101 may be offered in place of certain required courses outlined in this bulletin for the civil, electrical, and mechanical curricula.

The curricula outlined below are the prewar curricula of the Duke University College of Engineering. Since September, 1942, varying degrees of modification have been in effect, depending on the wishes of the United States armed services. With the start of the Navy College Training Program on July 1, 1943, a gradual transition into certain curricula outlined by the Navy was begun. For the duration of the Navy College Training Program at Duke University, certain curricula described in Navy V-12 Bulletin No. 101 will be offered in place of those described below. A table showing equivalent Navy V-12 courses which may be accepted as credit toward a degree of Bachelor of Science in Civil, Electrical, or Mechanical Engineering is printed on pages 137-139 of this bulletin.

GROUPS OF STUDIES FOR THE DEGREE OF BACHELOR OF
SCIENCE IN CIVIL, ELECTRICAL, OR MECHANICAL
ENGINEERING

GROUP I

CIVIL ENGINEERING

Freshman Year

FIRST SEMESTER		SECOND SEMESTER	
	S.H.		S.H.
Mathematics 9	5	Mathematics 10	5
Chemistry 1	4	Chemistry 2	4
English 1	3	English 2	3
Physics 17	3	Physics 18	3
Drawing G.E. 1	2	Drawing G.E. 2	2
Physical Education		Physical Education	
	<hr/>		<hr/>
	17		17

Three weeks of Surveying S60 in summer. Credit 3 semester hours.

Sophomore Year

Mathematics 59	4	Mathematics 60	4
Physics 57	3	Physics 58	3
Economics 51	3	Economics 52	3
Statics G.E. 57	3	Kinetics G.E. 58	3
Surveying 61	2	Steam Engineering M.E. 55	2
Route Surveying 63	2	Route Surveying 64	2
Physical Education		Physical Education	
	<hr/>		<hr/>
	17		17

Junior Year

Strength of Materials 107	3	Hydraulics 128	3
Structures 131	4	Structures 132	4
Highway 115	3	Materials 118	3
Electrical Engineering 153	3	Electrical Engineering 154	3
Elective	3	Elective	3
	<hr/>		<hr/>
	16		16

Senior Year

Sanitary Engineering 123	4	Sanitary Engineering 124	3
Concrete 133	3	Concrete 134	3
Railroads 119	3	Astronomy-Navigation 112	3
Heat Power M.E. 103	3	Heat Power M.E. 104	3
Mechanical Engineering Lab. 115 ..	1	Mechanical Engineering Lab. 116 ..	1
Elective	3	Civil Engineering Project 143	3
	<hr/>	Elective	2
	17		<hr/>
			18

GROUP II

ELECTRICAL ENGINEERING

Freshman Year

FIRST SEMESTER	S.H.	SECOND SEMESTER	S.H.
Mathematics 9	5	Mathematics 10	5
Chemistry 1	4	Chemistry 2	4
English 1	3	English 2	3
Physics 17	3	Physics 18	3
Drawing 1	2	Drawing 2	2
Physical Education		Physical Education	
	<hr/>		<hr/>
	17		17

Three weeks of Surveying S60 in summer. Credit 3 semester hours.

Sophomore Year

Mathematics 59	4	Mathematics 60	4
Physics 57	3	Physics 58	3
Statics 57	3	Kinetics-Mechanism 52	4
Electrical Engineering 51	3	Electrical Engineering 52	3
Economics 51	3	Economics 52	3
Steam Engineering 55	2	Physical Education	
Physical Education			<hr/>
	<hr/>		17
	18		

Junior Year

Theory of D. C. Circuits 151	4	Theory of A. C. Circuits 152	3
Hydraulics 128	3	Strength of Materials 107-109	4
Electrical Circuits Lab. 161	1	Electrical Circuits Lab. 162	1
Heat Power Engineering 103	3	Heat Power Engineering 104	3
Differential Equations 131	3	Electrical Measurements 104	3
Mechanical Engineering		Mechanical Engineering	
Laboratory 115	1	Laboratory 116	1
	<hr/>		<hr/>
	15		15

Senior Year

A. C. Machinery 257	3	A. C. Machinery 258	3
Electric Power Trans. 159	3	Electric Power Stations 158	2
Communication 261	3	Communications 262	4
D. C. Machinery 155	2	Seminar 166	1
Electrical Machinery		Electrical Machinery	
Laboratory 163	1	Laboratory 164	1
Seminar 165	1	Electives	6
Electives	<hr/>		<hr/>
	6		17
	<hr/>		
	19		

In conformance with the wishes of the United States armed services, during wartime the curriculum in electrical engineering will emphasize particularly those aspects of theory and practice which are encountered principally in the field of electrical communications. Since September, 1942, the Senior curriculum has been modified to include intensive special classroom and laboratory training in radio, with particular reference to ultra-high frequency techniques.

GROUP III

MECHANICAL ENGINEERING

Freshman Year

FIRST SEMESTER		SECOND SEMESTER	
	S.H.		S.H.
Mathematics 9	5	Mathematics 10	5
Chemistry 1	4	Chemistry 2	4
English 1	3	English 2	3
Physics 17	3	Physics 18	3
Drawing 1	2	Drawing 2	2
Physical Education		Physical Education	
	17		17

Three weeks of Surveying S60 in summer. Credit 3 semester hours.

Sophomore Year

Mathematics 59	4	Mathematics 60	4
Physics 57	3	Physics 58	3
Statics, G.E. 57	3	Kinetics-Mechanism 54	5
Const. Processes 51	3	Steam Engineering 55	2
Economics 51	3	Economics 52	3
Physical Education		Physical Education	
	16		17

Junior Year

Fluid Mechanics 105	3	Machine Design 150	3
Str. of Materials 107-109	4	Aeronautics 108	3
Electrical Engg. 153	3	Electrical Engg. 154	3
Thermodynamics 101	3	Thermodynamics 102	3
M.E. Lab. 113	1	M.E. Lab. 114	2
Elective	3	Elective	3
	17		17

Senior Year

<i>Mechanical Option</i>		Industrial Engg. 158	3
Machine Design 151	3	Power Plants 162	3
Int. Comb. Eng. 155	3	Refrigeration 154	3
Heating and Air Cond. 153	3	M.E. Lab. 160	2
M.E. Lab. 159	2	Seminar 200	1
Seminar 199	1	Electives	5
Electives	5		17
	17		

Senior Year

<i>Aeronautics Option</i>		Industrial Engg. 158	3
Machine Design 151	3	Airplane Design 172	3
Int. Comb. Eng. 155	3	Airplane Engines 156	3
Airplane Design 171	3	Aerodynamics 174	2
Aerodynamics 173	2	Aeronautics Lab. 176	2
M.E. Lab. 159	2	Seminar 200	1
Seminar 199	1	Elective	3
Elective	3		17
	17		

Note: The Aeronautics Option for Senior Mechanical Engineering students will not be offered while the Navy College Training Program is in operation.

COURSES OF INSTRUCTION, COLLEGE OF ENGINEERING

PROFESSOR HALL, DEAN; PROFESSOR BIRD, CHAIRMAN, CIVIL ENGINEERING; PROFESSOR SEELEY, CHAIRMAN, ELECTRICAL ENGINEERING; PROFESSOR WILBUR, CHAIRMAN, MECHANICAL ENGINEERING; ASSOCIATE PROFESSORS MEIER AND REED; ASSISTANT PROFESSORS HINTON, LEWIS, THEISS, VALE, AND WILLIAMS; MESSRS. COOKE, HACKNEY, HAINES, JONES, KRAYBILL, MOORE, PALMER AND PATTINSON

GENERAL ENGINEERING

1-2. Engineering Drawing.—4 s.h.

STAFF

5. Descriptive Geometry.—2 s.h.

STAFF

51-52. Technical Drawing.—6 s.h.

ASSISTANT PROFESSOR L. HALL

57. Statics.—Prerequisites: courses G.E. 1-2, Mathematics 9 and 10. 3 s.h.
STAFF

58. Kinetics.—Prerequisites: courses G.E. 57, and Mathematics 59. 3 s.h.
STAFF

107. Strength of Materials.—Prerequisite: course 57. 3 s.h.

STAFF

109. Strength of Materials Laboratory.—1 s.h.

STAFF

128. Hydraulics.—Prerequisite: course 57. 3 s.h.

STAFF

151-152. Elements of Cartography.—6 s.h.

ASSISTANT PROFESSOR L. HALL

CIVIL ENGINEERING

PROFESSORS BIRD AND HALL; ASSISTANT PROFESSOR WILLIAMS; MR. PALMER

S60. Plane Surveying.—Prerequisites: G.E. 1 and trigonometry. 3 s.h.
STAFF

61. Higher Surveying.—Prerequisite: course S60. 2 or 3 s.h.

ASSISTANT PROFESSOR WILLIAMS

63-64. Route Surveying.—Prerequisite: course S60. 4 s.h.

STAFF

70. Civil Engineering Drawing.—Prerequisite: course G.E. 1-2. 2 s.h.

MR. PALMER

112. Practical Astronomy and Navigation.—Prerequisite: S60 or with the consent of the instructor. 3 s.h.

PROFESSOR BIRD

115. Highway Engineering.—3 s.h.

PROFESSOR BIRD

118. Materials of Engineering.—Prerequisite: course G.E. 107 or concurrent. 3 s.h.

ASSISTANT PROFESSOR WILLIAMS

119. Railroad Engineering.—Prerequisite: course 63-64. 3 s.h.

PROFESSOR BIRD

120. Railroad Engineering.—Prerequisite: course 63-64. 2 s.h.
PROFESSOR BIRD
- 123-124. Sanitary Engineering.—Prerequisite: course G.E. 128. 7 s.h.
PROFESSOR HALL
131. Steel Structures—Stresses.—Prerequisite: course G.E. 57. 4 s.h.
PROFESSOR BIRD
132. Steel Structures—Design.—Prerequisites: courses G.E. 107 and 131.
4 s.h. PROFESSOR BIRD
133. Reinforced Concrete.—Prerequisite: course G.E. 107. 3 s.h.
PROFESSOR BIRD
134. Advanced Reinforced Concrete.—Prerequisites: courses G.E. 107.
3 s.h. PROFESSOR BIRD
135. Soils and Foundations.—Prerequisite: course G. E. 107. 3 s.h.
PROFESSOR BIRD
- 137-138. Seminar.—2 s.h. STAFF
- 143-144. Projects in Civil Engineering.—3-6 s.h. STAFF
240. Indeterminate Structures.—Prerequisites: course 131 and ability to
read French or German. 3 s.h. PROFESSOR BIRD

ELECTRICAL ENGINEERING

PROFESSOR SEELEY; ASSOCIATE PROFESSOR MEIER; ASSISTANT PROFESSOR
VAIL; MR. KRAYBILL

- 51-52. Survey of Electrical Engineering.—Prerequisites: Freshman math-
ematics and concurrent physics. 6 s.h. ASSOCIATE PROFESSOR MEIER
104. Electrical Measurements.—Prerequisites: courses 151, 161. E.E. 152,
162 concurrently. 3 s.h. PROFESSOR SEELEY
151. Theory of Direct Current Circuits.—Prerequisites: course 51-52, Phys-
ics 57-58, Mathematics 59, 60. Mathematics 131 should be taken concurrently.
4 s.h. ASSISTANT PROFESSOR VAIL
152. Theory of Alternating Current Circuits.—Prerequisites: course 151,
Mathematics 131. 3 s.h. ASSISTANT PROFESSOR VAIL
- 153-154. Principles of Electrical Engineering.—Prerequisite: Physics 57-
58. 6 s.h. ASSISTANT PROFESSOR VAIL; MR. KRAYBILL
155. Direct Current Machinery.—Prerequisites: courses 151, 161-162. 2 s.h.
ASSOCIATE PROFESSOR MEIER
156. Electric Transportation.—Prerequisites: courses 151, 152, 161-162, or
153-15. 3 s.h. MR. KRAYBILL
157. Industrial Applications of Electrical Equipment.—Prerequisite: course
153-154. 3 s.h. ASSOCIATE PROFESSOR MEIER
158. Electric-Power Stations.—Prerequisites: courses 151, 152, and M.E.
103-104. 2 s.h. ASSISTANT PROFESSOR VAIL
159. Electric-Power Transmission.—Prerequisites: courses 151, 152. 3 s.h.
PROFESSOR SEELEY
- 161-162. Electrical Circuits Laboratory.—2 s.h.
ASSISTANT PROFESSOR VAIL
- 163-164. Electrical Machinery Laboratory.—2 s.h.
ASSISTANT PROFESSOR VAIL

- 165-166. Electrical Engineering Seminar.—2 s.h.
ASSISTANT PROFESSOR VAIL AND STAFF
169. Electron Tubes and Circuits.—Prerequisites: courses 162, 162. 3 s.h.
PROFESSOR SEELEY
- 173-174. Projects in Electrical Engineering.—3-6 s.h.
PROFESSOR SEELEY AND STAFF
202. Fundamentals of Radio.—Prerequisite: course 153-154. 3 s.h.
MR. KRAYBILL
- 257-258. Alternating Current Machinery.—Prerequisites: courses 152, 155.
6 s.h. ASSOCIATE PROFESSOR MEIER
261. Communication Engineering, Audio Frequency.—Prerequisites: courses
151, 152, Mathematics 131. 3 s.h. PROFESSOR SEELEY, MR. KRAYBILL
262. Communication Engineering, Radio Frequency.—Prerequisite: course
261. 4 s.h. PROFESSOR SEELEY, MR. KRAYBILL
- 263-264. Mathematical Analysis of Electrical Circuits.—Prerequisites:
courses 151, 152, and Mathematics 131. 6 s.h. PROFESSOR SEELEY

MECHANICAL ENGINEERING

PROFESSOR WILBUR; ASSOCIATE PROFESSOR REED; ASSISTANT PROFESSORS HINTON,
LEWIS, AND THEISS; MESSRS. COOKE AND PATTINSON

51. Constructive Processes.—Prerequisite: Chemistry 2. 3 s.h.
ASSISTANT PROFESSOR THEISS; MESSRS. COOKE AND PATTINSON
52. Kinetics-Mechanism.—Prerequisites: G.E. 2, G.E. 57, Mathematics 59.
Mathematics 60 concurrently. 4 s.h.
ASSOCIATE PROFESSOR REED; ASSISTANT PROFESSORS HINTON
AND THEISS; MR. PATTINSON
54. Kinetics-Mechanism.—Prerequisites: G.E. 2, G.E. 57, and Mathematics
59. Mathematics 60 concurrently. 5 s.h.
ASSOCIATE PROFESSOR REED; ASSISTANT PROFESSORS HINTON
AND THEISS; MR. PATTINSON
55. Steam Engineering.—Prerequisite: Physics 18. 2 s.h.
PROFESSOR WILBUR; MESSRS. COOKE AND PATTINSON
- 101-102. Engineering Thermodynamics.—Prerequisites: M.E. 55, Physics
58, and Mathematics 60. 6 s.h.
PROFESSOR WILBUR AND ASSISTANT PROFESSOR HINTON
- 103-104. Heat Power Engineering.—Prerequisites: Mathematics 60, M.E.
55. 6 s.h. ASSOCIATE PROFESSOR REED
105. Fluid Mechanics.—Prerequisite: M.E. 54. 3 s.h.
PROFESSOR WILBUR AND ASSISTANT PROFESSOR HINTON
108. Aeronautics.—Prerequisite: M.E. 105. 3 s.h.
ASSISTANT PROFESSOR THEISS; AND MR. PATTINSON
- 113-114. Junior Mechanical Engineering Laboratory.—Prerequisite: M.E.
55. M.E. 101-102 concurrently. 3 s.h.
ASSISTANT PROFESSORS HINTON AND THEISS;
MESSRS. COOKE AND PATTINSON

- 115-116. Junior Mechanical Engineering Laboratory.—2 s.h.
ASSISTANT PROFESSOR HINTON; MR. PATTINSON
- 150-151. Machine Design.—Prerequisites: G.E. 107, M.E. 51, M.E. 54.
6 s.h. ASSOCIATE PROFESSOR REED; ASSISTANT PROFESSOR HINTON
153. Heating and Air Conditioning.—Prerequisites: M.E. 102 or M.E. 104.
M.E. 159 concurrently. 3 s.h. ASSOCIATE PROFESSOR REED; MR. COOKE
154. Refrigeration Engineering.—Prerequisites: M.E. 102 or M.E. 104.
M.E. 160 concurrently. 3 s.h. ASSOCIATE PROFESSOR REED
155. Internal Combustion Engines.—Prerequisite: M.E. 101-102. 3 s.h.
ASSISTANT PROFESSOR HINTON
156. Airplane Engines.—Prerequisite: M.E. 155. 3 s.h.
158. Industrial Engineering.—3 s.h. ASSISTANT PROFESSOR THEISS
159. Senior Mechanical Engineering Laboratory.—Prerequisite: M.E. 114.
M.E. 153 concurrently. 2 s.h.
ASSISTANT PROFESSORS HINTON AND THEISS; MR. COOKE
160. Senior Mechanical Engineering Laboratory.—Prerequisite: M.E. 159.
M.E. 154, 162 concurrently. 2 s.h.
ASSISTANT PROFESSORS HINTON AND THEISS; MR. COOKE
162. Power Plant Calculations.—Prerequisites: M.E. 101-102 or 103-104.
3 s.h. PROFESSOR WILBUR
- 171-172. Airplane Design.—Prerequisites: M.E. 150, M.E. 108. M.E. 151
concurrently. 6 s.h.
- 173-174. Aerodynamics.—Prerequisites: M.E. 105, M.E. 108. 4 s.h.
176. Aeronautics Laboratory.—2 s.h.
- 197-198. Projects in Mechanical Engineering.—3-6 s.h.
PROFESSOR WILBUR AND STAFF
- 199-200. Seminar.—2 s.h. STAFF

NAVY V-12 COURSES

Navy V-12 courses may be substituted for College of Engineering courses as indicated below:

COLLEGE OF ENGINEERING	N V-12
G.E. 1-2. Engineering Drawing.	N D1. Engineering Drawing.
G.E. 57. Statics.	N D2. Descriptive Geometry.
G.E. 58. Kinetics.	N A1. Analytical Mechanics-Statics.
	N A2. Analytical Mechanics-Dynamics.
G.E. 107. Strength of Materials.	N CE3. Strength of Materials.
G.E. 109. Strength of Materials Lab.	N CE4a. Strength of Materials Lab.
G.E. 128. Hydraulics.	N CE6. Fluid Mechanics.
C.E. S60. Plane Surveying.	N CE1. Plane Surveying.
C.E. 63-64. Route Surveying.	N CE10. Curves and Earthwork.
C.E. 112. Practical Astronomy and Navigation.	N Math. M8. Elementary Navigation and Nautical Astronomy.

- C.E. 115. Highway Engineering.
 C.E. 118. Materials of Engineering.
 C.E. 123-124. Sanitary Engineering.
 (b) Public Water Supply.
 (c) Sewerage.
 C.E. 131. Steel Structures—Stresses.
 C.E. 132. Steel Structures—Design.
 C.E. 133. Reinforced Concrete.
 C.E. 134. Advanced Reinforced Concrete.
 C.E. 135. Soils and Foundations.
 E.E. 51-52. Survey of Electrical Engineering.
 E.E. 151. Theory of Direct Current Circuits.
 E.E. 152. Theory of Alternating Current Circuits.
 E.E. 153-154. Principles of Electrical Engineering.
 E.E. 155. Direct Current Machinery.
 E.E. 161-162. Electrical Circuits Lab.
 E.E. 163-164. Electrical Machinery Lab.
 E.E. 202. Fundamentals of Radio.
 E.E. 257-258. Alternating Current Machinery.
 E.E. 261. Communication Engineering, Audio Frequency.
 E.E. 262. Communication Engineering, Radio Frequency.
 M.E. 51. Constructive Processes.
 M.E. 52. Kinetics-Mechanism.
 M.E. 54. Kinetics-Mechanism.
 M.E. 55. Steam Engineering.
 M.E. 101-102. Engineering Thermodynamics.
 M.E. 103-104. Heat Power Engineering.
- N CE17. Highway Engineering.
 N CE4. Strength of Materials Lab. I.
 N CE14. Water Supply.
 N CE13. Sanitary Engineering.
 N CE7. Structures I.—Structural Analysis.
 N CE9.+ Structures III.—Elementary Structural Design in Steel and Wood.
 N CE8. Structures II.—Theory of Reinforced Concrete.
 N CE11.— Structures IV.—Concrete Structures and Foundations.
 N CE15. Soil Mechanics.
 N EE1. Electricity and Magnetism.
 N EE3. Electric and Magnetic Circuits I.
 N EE4. Electric and Magnetic Circuits II.
 N EE10, 11. Electrical Engineering I—
 Direct-Current Apparatus and Circuits.
 Electrical Engineering II—
 Alternating-Current Apparatus and Circuits.
 N EE12a. Direct-Current Machinery and Storage Batteries.
 N EE3-4. Electric and Magnetic Circuits I and II.
 N EE15. Electrical Engineering Lab.
 N EE(5a-6a). Electron Tubes and Circuits Ia and IIa.
 N EE13a. Alternating-Current Machinery Ia.
 N EE7. High-Frequency Circuits I.
 N EE8. High-Frequency Circuits II.
 N ME. Mechanical Processes.
 N A1. Analytical Mechanics I—
 Statics.
 N ME1. Kinematics.
 N A1. Analytical Mechanics I—
 Statics.
 N ME1. Kinematics.
 N ME2. Elementary Heat Power.
 N ME4. Thermodynamics I.
 N ME4a. Thermodynamics Ia.

M.E. 105. Fluid Mechanics.	N ME3a. Heat Power Ia.
M.E. 108. Aeronautics.	N CE6. Fluid Mechanics.
M.E. 113-114. Junior Mechanical Engineering Laboratory.	N ME14. Aerodynamics.
M.E. 115-116. Junior Mechanical Engineering Laboratory.	N CE6. Fluid Mechanics.
M.E. 150-151. Machine Design.	N ME3a. Heat Power Ia.
	N ME15, 16. Mechanical Design I, II.
M.E. 154. Refrigeration Engineering.	N ME13. Refrigeration.
M.E. 155. Internal-Combustion Engines.	N ME11. Heat Power II—Internal-Combustion Engines.
M.E. 158. Industrial Engineering.	N GE3. Industrial Organization.
M.E. 159. Senior Mechanical Engineering Laboratory.	N ME10. Naval Machinery.
M.E. 160. Senior Mechanical Engineering Laboratory.	N ME11. Heat Power II—Internal-Combustion Engines.
M.E. 162. Power Plant Calculations.	N ME12. Heat Power III—Steam Power.
	N ME10. Naval Machinery.

GENERAL REGULATIONS

TRINITY COLLEGE, WOMAN'S COLLEGE, AND COLLEGE OF ENGINEERING

Under the accelerated wartime program and in keeping with the Navy schedule, Trinity College and the College of Engineering will be operated on semesters of sixteen weeks each, the first semester beginning on or about July 1, the second semester on or about November 1, and the third semester on or about March 1.

The Woman's College will operate as in the past on a two-semester basis, the fall semester opening in the middle of September.

It is important that all students be present on the first day of the session, for those who are late incur the penalties described in this catalogue under the topic "Admission to College" and below under the sub-topic "Course Cards." Students who enter after the beginning of the semester are marked absent in the work they have missed in the courses to which they are admitted, and these absences carry the same penalty as do other absences from the courses.

MATRICULATION, REGISTRATION, AND ENROLLMENT

All students must appear before the Committee on Admission and obtain cards for admission. Cards of admission must be presented at the Treasurer's Office at the time of matriculation. All students, both old and new, are required to matriculate at the beginning of each semester and to obtain from the Treasurer a certificate of matriculation which serves also as an enrollment card. Students matriculating in either semester at a date later than that prescribed in this catalogue shall pay to the Treasurer a penalty of \$5.00 for late registration. Students whose course cards have been approved in the spring in the manner provided below are given an opportunity during the summer to matriculate by mail for the first semester. No student without a matriculation card is admitted to any class.

COURSE CARDS

Members of the Freshman, Sophomore, and Junior classes are required to submit to the Dean, not later than the date of spring registration, cards showing their selection of courses for the following year. These cards must be approved by the Dean. After being approved, the cards must be filed for permanent record in the Dean's Office. Students in the Freshman, Sophomore, and Junior classes who do not select their courses for the following year at the time appointed must pay a fee of \$5.00 to the Treasurer of the University before their course cards may be approved in the fall. The same regulations apply for the second semester. Students whose course cards have been approved but who, for reasons

not arising within the University, desire to make a change in the card approved are required to pay to the Treasurer a fee of \$1.00 for each change made. No course may be elected later than two weeks after the opening of the semester.

If a student drops a course without permission from the Dean of the College, the grade for that course shall be recorded as "F."

If a student drops with permission a course in which he is failing at that time, the grade for that course shall be recorded as "F" unless, in the judgment of the Dean, circumstances do not justify this penalty.

EXAMINATIONS

Midyear and final examinations are held in all subjects in January and May, respectively. These dates are different for examinations held under the accelerated wartime program. The examination record combined with the record made in class constitutes the student's final grade.

REGULATIONS REGARDING GRADES

The following regulations have been adopted by the Faculty:

Grades shall be reported so as to indicate one of four things:

(1) *Passed.* A grade of "A," "B," "C," or "D" shall indicate that a student has passed a course. The work of this group of students shall be graded according to the following system: "A": exceptional; "B": superior; "C": medium; "D": inferior.

(2) *Failed.* A grade of "F" shall indicate that the student has failed in the course and that in order to receive credit for the course he shall be obliged to take the work again in class.

(3) *Incomplete.* (a) A grade of "I" may be reported by the instructor if for any reason he is unable to report the final grade at the regular time. (b) All students with incomplete grades who have not satisfied the requirements of the departments concerned and who have not obtained a passing grade before the close of the semester following the date of the regular examination in which the "I" was incurred are regarded as having failed in the course concerned and must repeat the work in class in order to receive credit.

(4) *Absent from Final Examination.* (a) The grade "X" shall indicate that the student was absent from the final examination. (b) A student absent from examination and marked "X," if his absence has been excused by the Dean of the College, may receive an examination on the payment of a fee of \$3.00 to the Treasurer of the University. The department concerned shall arrange for the examination in cases where absences are incurred and excused, and the grade reported in these cases shall be that earned by the student. (c) All students (with "X" grades) who have not satisfied the requirements of the department concerned and who have not obtained a passing grade before the close of the semester following the date of the regular examination in which the "X" was incurred, are regarded as having failed in the course concerned and must repeat the work in class in order to receive credit. (d) If a student's

absence from an examination is not excused by the Dean of the College, his grade for the course concerned shall be recorded as "F."

EXPLANATION OF QUALITY-POINT SYSTEM

The requirements for the degree are reckoned not only in semester hours but also in quality points. Quality points are the points earned by a student, according to his grades, for each semester hour of credit. The grade "A" gives three quality points for each semester hour of credit; the grade "B," two quality points; the grade "C," one quality point. The grade "D" carries no credit in quality points. For the grade "F" one quality point is deducted for each semester hour of failure. Credit for 120 quality points, exclusive of those earned in physical education, is required for the degree of Bachelor of Arts or Bachelor of Science in all groups.

NUMBERS OF HOURS OF CLASSWORK

Without special permission of the Dean, no undergraduate student is allowed to take less than fourteen semester hours of classwork a week.

The normal maximum credit work of an undergraduate student in the colleges of arts and sciences is fifteen, or seventeen semester hours (if one course is an eight semester hour science), and the permissible maximum is nineteen semester hours. This maximum, however, cannot be taken by a student who has not earned at least a "C" average in his work of the preceding semester.

CLASS STANDING

For a student to rank as a Sophomore, he must have to his credit twenty-four semester hours with an average grade of "C"; as a Junior, fifty-four semester hours with an average grade of "C"; as a Senior, ninety semester hours with an average grade of "C."

SENIOR WORK

A student of the Senior Class irrespective of his average grade in preceding years, must, in order to be eligible for graduation, complete the work of his Senior year with an average grade of "C" or better.

EXCLUSION FOR FAILURE

A student of the Freshman Class entering college for the first time is not permitted to remain in the University in the second semester unless he passes as much as six semester hours of the work of the first semester; any other student is not permitted to remain in the University in the second semester unless he passes as much as nine semester hours of work in the first semester.

A student of the Freshman Class is not permitted to re-enter in September, nor to enter the Summer Session, if he did not pass at least six semester hours of work in the second semester of the previous year and a total of eighteen semester hours of work for the entire year; any other

student is not permitted to re-enter in September, nor to enter the Summer Session, if he did not pass at least nine semester hours of work in the second semester of the previous year and a total of eighteen semester hours of work for the entire year.

STUDENTS TRANSFERRING FROM OTHER INSTITUTIONS

Students whose advanced credits from another institution are accepted by the University will be given an average grade of "C" on the semester hours with which they are credited, provided their grades warrant it.

DEFICIENCIES IN COMPOSITION

The following regulations have been adopted by the Faculty:

1. Any Freshman who is found by the English Department to be unable to handle satisfactorily the work of composition in English 1-2 is required to take special work until he is able to do satisfactorily the regular work of English 1-2.

2. No student who has failed in English 1-2 or 53 is permitted to become a special student without continuing his work in composition until he has made up his deficiency in this work.

3. Whenever the work of a student in any subject is satisfactory to an instructor except for gross errors in English, the instructor concerned may hand in a provisional grade only. This grade may not be recorded in the college files until the student shall have improved his work in composition to the satisfaction of the English Department. A list of such provisional grades, along with evidence of deficiencies, shall be furnished the English Department each term by the officers in charge of the grades, and a report shall be made by this department when the deficiencies have been removed.

4. All instructors are requested to advise their students each semester concerning these regulations.

CANDIDATES FOR ACADEMIC DEGREES

1. A tentative list of all candidates for the Bachelor's degree shall be prepared under the supervision of the Dean of the College as early in the college year as possible, shall be read by him to the Faculty at its first regular meeting in October, shall be furnished in copy to each department of instruction for information and reference, and also shall be posted in copy on the official bulletin board of the University for the information of the students concerned. Dates are subject to change in Trinity College and the College of Engineering under the wartime schedule.

2. Copies of the second such tentative list likewise shall be prepared, read, and distributed by April 15.

3. A final list of all candidates for the degrees shall be read by the

Dean to the Faculty at its first regular meeting in May and shall be adopted by the Faculty as the final list. After the adoption of this list no name may be added to it.

A student who completes in a summer session the work required by the University for the Bachelor's degree will be granted the degree at the end of that session.

CLASS ATTENDANCE

TRINITY COLLEGE AND THE COLLEGE OF ENGINEERING

Absence of an undergraduate civilian student of Trinity College or the College of Engineering from his classwork is excused only if the absence is unavoidable, due to illness, or approved beforehand by the Dean of the College. Punctual attendance also is required; both tardies and absences are reported at the end of each week to the Dean's Office by every instructor. They must be explained promptly by the student to the satisfaction of the Dean; otherwise they are regarded as unexcused. For the first unexcused absence from a course, the penalty is the loss of one quality point in that course; for the second from that course, the loss of an additional quality point in the course and probation in the course; for the third from that course, removal from the course with a loss of quality points equivalent to the semester hours credit of the course. Three unexcused tardies in a course carry the same penalty as one unexcused absence from that course; four in a course, that of two unexcused absences from that course; five in a course, that of three unexcused absences from the course. A student shall be recorded as tardy if he is not present at roll call. A student who is dropped from two or more courses for excessive absences or tardies is dismissed from college for the rest of the semester.

Instructors' weekly attendance reports are filed in the Dean's Office and become a part of the permanent record of all students. No instructor has the authority to excuse either tardies or absences of students.

THE WOMAN'S COLLEGE

Regular and punctual attendance in classwork is expected of all students.

Weekly reports of all absences from class are made by each instructor and are filed in the Dean's Office. A permanent record of the attendance of each student becomes a part of her general college record. The instructor has no authority to excuse a student from class attendance, and it is his duty to report all absences, for whatever cause, to the Dean's Office at the end of each week.

In order to provide for an occasional short illness or for a sudden emergency, one absence per semester-hour credit may be incurred in each course during each semester without penalty, but no consecutive absences, except for illness or unless excused beforehand by the Dean, may be taken in any course, unless the class is scheduled on consecutive days. As stated above, the purpose of this rule is to provide for those absences

made necessary by illness and various emergencies, and students should reserve them for such occasions.

For any consecutive absences from a course, except for illness in the Infirmary, excuse from the Dean's Office is necessary. Excuse for absence due to prolonged illness or to authorized representation of the University in a student activity must also be obtained from the Dean's Office.

After the total number of absences allowed in any course has been incurred by a student for any reason whatsoever, no further absences, except those excused by the Dean, may be incurred.

No absences on days immediately preceding or following a holiday will be allowed.

ASSEMBLY AND CLASS MEETINGS

TRINITY COLLEGE AND THE COLLEGE OF ENGINEERING

Because of the wartime schedule, assembly and class meetings which are held regularly when the normal schedule is in effect have been eliminated for the present. These meetings, however, may be held on call when conditions justify it.

WOMAN'S COLLEGE

A weekly assembly is held for all students in the Woman's College, and an additional assembly for all Freshmen and transfer Sophomores. A meeting of the Freshman Class is held each week, and other classes meet at appointed times.

Attendance upon all of these meetings is compulsory for all students involved.

SCHOLASTIC REGULATIONS FOR ATHLETIC AND OTHER ORGANIZATIONS

The following regulations have been adopted by the Faculty:

1. Any student who receives less than a passing grade on more than six hours of his required work of the preceding term shall be ineligible to represent the University in any athletic contest, concert, or other public event.

2. Members of athletic teams or other student groups engaging in public representation of the University are expected to be carrying satisfactorily their current work. A student may be barred from participation in such representation if, in the opinion of the Dean, he is not doing satisfactorily his current work.

Duke University is a member of the Southern (Athletic) Conference and observes the following scholastic requirement of that Conference:

"The scholastic requirement for eligibility to participate in varsity intercollegiate sports shall be the passing by the applicant of a minimum of twenty-four semester hours or thirty-six quarter-

hours of the work of his immediately preceding year in college; with the proviso that graduate students and students in the schools of law and medicine become scholastically eligible on the certificate of the deans of their schools."

THE ATHLETIC COUNCIL

The Board of Trustees, at its regular annual meeting in June, 1907, created an Athletic Council to be composed of eleven members appointed annually: three from the Faculty, to be appointed by the President of the University; four from the alumni, elected by the Alumni Association; and four from the undergraduates, one from each of the four classes, elected by the members of each class.

The three members of the Athletic Committee of the Faculty are the Faculty representatives in the Athletic Council. This committee alone has the responsibility of enforcing the scholastic and athletic requirements of the University for student participation in intercollegiate sports. The athletic eligibility rules are those of the Southern Conference; the scholarship requirements are printed elsewhere in this catalogue.

The Executive Committee of the Athletic Council is composed of the Chairman of the Faculty Committee on Athletics, and one other Faculty member and one alumni member of the Council. The Athletic Council on recommendations of its Executive Committee arranges athletic schedules, awards insignia of merit earned by members of athletic teams, and strives to promote among students of the University a proper and helpful athletic spirit; to encourage good fellowship in such sports both within the student body and toward student bodies of other educational institutions; through athletic sports to help cultivate a high sense of honor, earnest, unselfish effort, and manly conduct. The Executive Committee of the Council recommends to the President of the University persons to serve as Graduate Manager of Athletics and as coaches in the various sports. The election of such persons, however, rests solely with the Trustees of the University or the Executive Committee of the University, on recommendation of the President of the University.

All funds arising from athletics are handled entirely by the Treasurer of the University. An audit of the receipts and disbursements of these funds is made annually by the official auditors of the University.

REGULATIONS REGARDING PUBLIC LECTURES AND OTHER PUBLIC OCCASIONS

All public lectures or addresses and other public events that are given under the auspices of the University or of any organization in any way connected with the University are under the supervision of the Faculty Council on Public Lectures. All dates and programs must be approved by this council except in instances where such occasions have been placed under the supervision of the Director of Public Relations.

HEALTH AND PHYSICAL EDUCATION

The program of Health and Physical Education in Duke University has four distinct phases, as follows:

1. Student Health.
2. Physical Instruction.
3. Intramural Sports.
4. Intercollegiate Athletics.

MEDICAL CARE

With the exceptions noted below, full medical and surgical care is furnished to all regularly matriculated students of the University, during both the college year and the summer quarter, at no additional cost to them beyond the medical fee of \$5.00 payable each semester or the medical fee charged each student of the summer quarter. This service is under the direction of the University Physician with the co-operation of the Staffs of the Infirmaries (one on each campus) and the University Hospital. It includes hospitalization (limited to thirty days), medical and surgical care, drugs, dressings, X-ray work, and ward, but not special nursing. A charge for board is made at the same rate as in the University dining halls, and student meal tickets for these halls are accepted in payment of this board. Refraction of eyes, treatment of teeth and of all chronic and pre-existing conditions, such as diseased tonsils, hernias, elective surgery, chronic skin conditions, endocrine disturbances, etc., or accidents or illnesses occurring during vacations or while off the campus, are not included in this service. The cost of any necessary braces and orthopaedic appliances, as well as of special nursing, must be borne by the student.

No illness is treated in dormitory or other rooms occupied by students. Students needing treatment for minor medical or surgical conditions have the attention of the Director at his two daily visits to the Infirmaries, which have day and night nurses on duty. Students developing serious conditions are promptly transferred from the Infirmaries to the University Hospital, where they come under the care of the Staff of the Hospital.

**PHYSICAL EDUCATION AND INTERCOLLEGIATE SPORTS
TRINITY COLLEGE AND THE COLLEGE OF ENGINEERING**

The University requires all students to engage in some type of physical activity for two years or four full semesters. This work consists of participation in natural, practical, physical activity for at least three one-hour periods each week. A credit of six hours, with an average grade of "C," is required in physical education for graduation.

The intercollegiate athletic program is controlled entirely by the University and consists of the organization and training of representative Freshman and varsity teams in the following sports: football, basketball, baseball, track, cross country, swimming, lacrosse, wrestling, tennis, and golf.

WOMAN'S COLLEGE

The Physical Education Department aims to give all students an appreciation of the value of activity for general physical well-being, skill in one or more activities which can be enjoyed as recreation after college, a well-developed and well-coordinated body and a knowledge of good posture and efficient handling of the body in everyday activities.

To this end, students are allowed to choose from a large number of activities including outdoor individual, dual, and team sports; several types of dancing, swimming, and gymnastics. All Freshmen are expected to take body mechanics in the winter, and each student must elect a rhythm, one team sport, and two individual or dual sports sometime during the three years of required physical education.

With the wartime emphasis on physical fitness for women as well as men, the more vigorous activities are being stressed. At present, therefore, all required work must be elected from the group of activities designated by the Department as vigorous. Light activities may be elected in addition to the required work.

In addition to the required work in physical education the Dance Club, the Swimming Club, and the Woman's Athletic Association give opportunities for all students to take part in the types of intramural activities most interesting to them. The swimming pool, tennis courts, and other athletic equipment are available to all students for use at specified times.

PUBLICATIONS COUNCIL

The student publications of the University are under the control of a council that was established in 1924 and reorganized by the Executive Committee of the University in 1935, and is constituted as follows: three (3) members from the University Staff appointed by the President of the University; two (2) members from the alumni appointed by the President of the University; six (6) men from the Junior and Senior classes, elected by the students in Trinity College and the College of Engineering; four (4) women from the Junior and Senior classes, elected by the students in the Woman's College; and three (3) editors and three (3) managers of student publications, ex officio members without any voting power. With the advice of the Council, the President of the University appoints each year for each publication an advisory committee of three (3) members from the Staff of the University.

No student publication can be started at the University without the approval of the Council.

RELIGIOUS EXERCISES

Chapel exercises are conducted throughout the academic year at 7:00 P.M. Thursday on the campus for men. Preaching services are held on Sunday at 11:00 A.M. in the University Chapel. Organ recitals and special programs are given from time to time on Sunday afternoons. In the summer carillon and organ recitals are given twice a week.

UNIVERSITY LECTURES

THE AVERA BIBLE LECTURES

The Avera Bible Fund was established in 1897 in honor of the late W. H. Avera by his wife, who donated \$2,500 for this purpose. The income from this amount is used to establish a lectureship and to provide a collection of books on Biblical Literature.

JOHN MCTYEIRE FLOWERS LECTURES

The John McTyeire Flowers Lectures, established by the late B. N. Duke as a memorial to John McTyeire Flowers, a young alumnus of Trinity College who died in the Far East in 1905, were inaugurated in 1921.

UNIVERSITY LECTURE SERIES

The University Series of Lectures is given each year. These lectures are under the supervision of the Committee on Public Lectures of the Faculty.

DUKE UNIVERSITY DAY

In commemoration of the signing by the late James B. Duke, on December 11, 1924, of the Indenture of Trust creating the Duke Endowment, under which Trinity College was expanded into Duke University, appropriate exercises are held on Duke University Day at the University. Various local alumni groups celebrate the anniversary in connection with their annual meetings, some of which are held on December 11 but most of them on other dates during the autumn.

ALUMNI ORGANIZATIONS

GENERAL ALUMNI ASSOCIATION

The Alumni Association of Duke University is composed of the male graduates and former students of Trinity College and Duke University. The Association gives its annual luncheon at Commencement at which a message of greeting is given by a representative of the class holding its twenty-fifth anniversary reunion. The annual business meeting of the Association is held at this time.

GENERAL ALUMNAE ASSOCIATION

The Alumnae Association of Duke University is composed of the women graduates and former students of Trinity College and Duke University. The Association joins with the Alumni Association in the annual luncheon at Commencement, holding its annual business meeting immediately afterward.

GENERAL ALUMNI COUNCIL

To give definite direction and supervision in the campaign for the erection of the Alumni Memorial Gymnasium, and for other purposes, an Alumni Council was provided for at the June, 1919, meeting of the Alumni Association. Since that time the Council has developed into a working body for the promotion of alumni interests by reason of its size and frequency of meetings. The membership is made up of representatives from local associations; class representatives, elected by reunion classes on the occasion of their fifth anniversary, or a multiple thereof; and officers of the Alumni Association.

GENERAL ALUMNAE COUNCIL

At the June, 1925, meeting of the Alumni Association the Alumnae Council was organized to function in a manner similar to that of the Alumni Council, in the interest of the former women students and of the University. Its purpose and form of organization are very much the same as those of the Alumni Council.

THE ALUMNI OFFICE

The General Alumni Office was organized to promote the work of the local alumni and alumnae associations and to co-ordinate the various activities of the General Alumni and Alumnae Associations and the General Alumni and Alumnae Councils. Seventy-seven county and local alumni associations have been formed in North Carolina and other states.

THE ALUMNI REGISTER OF DUKE UNIVERSITY

The Alumni Register of Duke University is a monthly magazine published by the Alumni Association in the interest of the alumni and the University. It aims to keep the alumni in touch with one another and with the University.

THE ALUMNI NEWS

The Duke University Alumni News is sent to all alumni four times during the year.

APPOINTMENTS OFFICE

With the co-operation of the Alumni Office, the University maintains an Appointments Office, in charge of a whole-time director, to serve graduates and advanced students of the institution on the one hand, and those who desire well-qualified persons for teaching and commercial positions on the other hand. The Appointments Office is divided into two sections: (1) the Division of Teacher Placement and (2) the Commercial Positions Division.

DUKE UNIVERSITY NEWS SERVICE

The Duke University News Service is the official publicity agency of the University for the purpose of sending out news to the press. It functions as a division of the Department of Public Relations and Alumni Affairs.

FEES AND EXPENSES

The following tables show the general fees and charges collected from all students and the special fees collected from those taking courses in the sciences and in history. All fees for each semester are due and payable, unless otherwise specified, at the time of registration at the beginning of that semester, and no student is admitted to classes until arrangements have been made with the Treasurer of the University for the settlement of fees.

GENERAL FEES

Matriculation, per semester.....	\$ 25.00
Tuition, per semester.....	100.00
Room-rent—See the detailed statement that follows.	
Athletic Fee, admitting students to all athletic contests held on the University grounds, per semester.....	5.00
Recreation Facilities and Equipment Fee, per semester.....	1.00
Damage Fee, payable annually at the time of first registration.....	1.00
Medical Fee, per semester.....	5.00
Library Fee, per semester.....	5.00
Commencement Fee, payable annually at the beginning of the second semester	3.00
Publication Fee:	
First semester.....	3.00
Second semester.....	2.50
Diploma Fee, payable by candidates for degrees, refunded if the diploma is not awarded.....	5.00

LABORATORY AND MATERIALS FEES

Botany 1, 2, 52, 55, 101, 104, 202, 204, 221, 255, and 256.....	\$ 2.50
Botany 51, 103, 151, 156, 203, 216, and 252.....	5.00
Forest Botany 224 and 253.....	2.50
*Chemistry 1, 2, 61, 70, 131, 132, 153, 154, 215, 216, 261, and 262.....	7.00
Chemistry 151, 152, 155, 241, 242, 253, and 254.....	8.50
Education 1, 58, 68, and 101.....	1.00
Education 112, 115, 116, 122, and 131.....	7.50
Education 208 (for testing materials in lieu of text).....	2.50
Engineering	
Civil S60—See <i>Summer Session Bulletin</i> .	
Civil 61, 63, 64, 112, 118, 123, 124, 135, 143, 144, and 240.....	2.00
Electrical 153, 154, 161, 162, 163, 164, 261, 262.....	2.00
General 109.....	2.00
Mechanical 113, 114, 159, 160, 176.....	2.50
Forest Botany 224 and 253.....	2.50
Forestry 224, 253, 254, 259, 260, 264, 357a, and 358a.....	2.50
Forestry 261, 351, 352, 354, 357b, 358b.....	\$2.50 to \$5.00
Geology 51, 52, 53, 64, 101, 151, and 152.....	2.50
Geology 102.....	5.00
Field trip in Geology 51-52 and 101-102 at cost.	

* When the laboratory in Chemistry 153-154 supplements that of another course and is taken simultaneously with such course, no fee is charged with Chemistry 153-154.

History 91 and 92.....	3.00
No texts are required in these courses, but a fee of \$3.00 is charged, and books placed in the Library for the use of those taking the courses. This fee is payable at the beginning of the semester and is collected through the office of the Treasurer of the University.	
Physical Education, per semester, for men.....	1.50
Physical Education, per semester, for women.....	1.00
Physics 1 and 2.....	2.00
Physics 51, 52, 57, 58, 61, 62, 70, 103, 104, 108, 215, 216, 217, 218, and 219	3.00
Physics 106.....	5.00
Zoology 1, 2, 92, 161, 204, 219, 220, 222, 274, 276, 306, 324, 343, 353, and 354	3.00
Zoology 53, 151, 156, 224, 229, 303, and 321.....	5.00

TEACHERS TAKING COLLEGE COURSES

Teachers in near-by schools, taking one or two courses, are required to pay a registration fee of \$5.00 each semester and a tuition fee of \$3.00 per semester hour of credit in addition to any regular laboratory fee or other fees collected from those students taking the courses.

ESTIMATED EXPENSES FOR AN ACADEMIC YEAR

The necessary expenses of a student are moderate; the University dormitories provide thoroughly comfortable and wholesome living conditions at a minimum of cost, while all charges made by the University have been kept low. Incidental expenses depend naturally upon the tastes and habits of the individual, but the actual necessary college expenses for one year, including board, room-rent, and such University fees as tuition, matriculation, commencement, library, damage, and medical, vary from \$574.50 to \$639.50 for a two-semester year. Books and laundry are not included in these figures.

LIVING ACCOMMODATIONS FOR MEN

Single room, per semester—Craven, Crowell, and Kilgo Quadrangles, West Campus.....	\$75.00
Double room, per student, per semester—Craven, Crowell, and Kilgo Quadrangles, West Campus.....	62.50

There are three groups of resident houses designated as Craven, Crowell, and Kilgo Quadrangles on the West Campus. The rooms are single, double, or arranged in suites of two rooms for four students. There are thirty-one houses within the three groups designated by the letters of the alphabet.

There is one building definitely assigned as a Freshman dormitory.

Rooms are reserved only for applicants who have been officially accepted by the University, upon application to the Director in the Business Division, Duke Station, Durham, North Carolina. A reservation fee of \$25.00 at the office of the Director in the Business Division is required. This reservation fee is deducted from the room charges at the time of registration for the fall semester.

A resident student in order to retain his room for the succeeding semester is required to make application accompanied by a reservation fee of \$25.00 at the office of the Director in the Business Division. All rooms which have not been reserved on or before an announced date will be considered vacant for the succeeding semester and will be reserved in the order in which applications are made.

Rooms are rented for no shorter period than one semester, or in the case of a medical student, one quarter, unless by special arrangement with the Director in the Business Division. A period of occupancy other than a semester or quarter and without special arrangement will be charged at a minimum rate of \$1.00 each day.

The exchange of rooms may be arranged for at the Housing Bureau within fifteen (15) days after the official opening of the semester or quarter of the school term. A charge of two dollars (\$2.00) will be made for the exchange of rooms after the periods allowed for such exchange. Persons exchanging rooms without the approval of the Housing Bureau will be subject to charges for both rooms.

The authorities of Duke University do not assume the responsibility of selecting and assigning roommates, though they will gladly render any assistance possible.

DORMITORY REGULATIONS

Duke University is particularly eager that its students shall have the best dormitory life to be found in any institution, and to encourage this has provided buildings and equipment which are not surpassed. The institution asks and believes that in return each student will respond to this effort by arranging his personal belongings in an orderly manner, and by caring for the buildings and furniture as he would do in the home of a friend. The following regulations are offered as a guide and a reminder that care is desired.

1. The student will be held responsible for any damage to the room or furnishings during the rental period, and will pay for all damages caused by his neglect, misuse or abuse of any part of the University property. Inspections will be made throughout the college year to observe the condition of the rooms and to advise students concerning the care of rooms, if necessary.

2. Maids will prepare the rooms daily except Sunday, the service beginning promptly at 8:00 A.M. and ceasing at 1:00 P.M., thereby giving the student complete use of his room during the afternoon.

3. University furniture or furnishings must not be removed from the room in which they have been placed by the University.

4. Electric wiring, door locks, window screens, steam or water lines should not be changed or added, since the University supervises and makes such changes as are necessary and advisable.

5. Pictures, pennants, clippings should be hung from the picture moulding and not tacked or pasted on walls or woodwork.

6. Each student is expected to supply necessary sheets, blankets, pillows, rugs, and curtains. Furniture, beds and mattresses (39" x 74"), tables, chairs, dressers, mirrors, and window shades are furnished by the University.

7. All trunks and heavy luggage will be stored in the trunk rooms. Janitors will remove the trunks from the hallways to the storage rooms when they are unpacked.

8. The exchange of rooms or keys should be arranged at the office. Any exchanges made otherwise will subject the participant to charges for both rooms.

9. The use or possession of intoxicating liquors, wines or beer, and gambling in any manner in any of the buildings or on the grounds of Duke University are forbidden.

10. Animals shall not be kept in the dormitories.

11. Women are permitted in the dormitories only when accompanied by the University Hostess.

12. The use of dormitory rooms as a sales office or storeroom, or the solicitation for sales or gifts within the buildings or on the grounds is prohibited except by appointees of the University.

LIVING ACCOMMODATIONS FOR WOMEN

The Woman's College campus, known as the East Campus, is situated about a mile and a quarter from the West Campus, with a private road connecting the two.

Houses—The eight residence houses on the East Campus are Alsbaugh, Aycock, Bassett, Joseph G. Brown, Giles, Jarvis, Pegram, and Southgate. A plan of the houses will be sent upon request to the Director in the Business Division, College Station, Durham, North Carolina. Each house has a resident head of house and paging system for announcing visitors.

Rooms—All questions concerning rooms should be addressed to the Director in the Business Division. The students' rooms are single, double, or arranged in suites of two rooms for two students.

Room Furnishings—Rooms are supplied with all necessary furniture. Curtains, towels, sheets, pillow-slips, blankets, and heavy bed covering, etc., are furnished by the students. Sash curtains of a standard type are required and can be bought at the College Store. Draperies, small scatter rugs, and study lamps can be brought from home or bought at reasonable prices from the College Store or in the city. Large rugs and heavy overstuffed furniture may not be brought into the dormitories.

Room-rent—

Single room, per student, per semester, Giles, Alsbaugh, Pegram,
Bassett, Brown, Jarvis, Aycock, and Southgate Houses.....\$87.50

Double room, per student, per semester, Giles, Alsbaugh, Pegram,
Bassett, Brown, Jarvis, Aycock, and Southgate Houses..... 62.50

Room Reservation—A room reservation fee of \$25.00 is required before any room reservation can be made for new or returning students. This fee is deducted from the room charges at the time of registration for the fall semester. Applicants for admission are requested not to send the room reservation fee until notified of acceptance. Those who make application and are accepted will not be entitled to have the reservation fee refunded unless the request is made on or before July 15. Those who are accepted after July 15 have ten days in which to pay their room reservation fee. This fee is not refundable.

No room assignments will be made for new students until they have been officially accepted by the Council on Admissions. The room reservation fee of \$25.00 is payable immediately upon notification of acceptance by the Council on Admissions. If room reservation fee has not been received within ten days after notification of acceptance by the Council on Admissions, the admission will be canceled.

Details relative to the signing of rooms by resident students will be posted on dormitory bulletin boards about April 15. Resident students have the right

to retain their rooms for the ensuing year or to sign for new ones in the order of their class beginning with the Seniors. The new students are then assigned the remaining rooms, and in so far as possible, the type of room which they prefer. The University is responsible for the fall semester only for securing roommates for new student desiring double rooms. After a student has been a resident for one semester, the responsibility for securing and keeping a roommate is transferred to the student. If a student occupying a double room does not have a roommate by the date posted, approximately two weeks after the beginning of the semester, she will be required to pay double rent. The University is glad to co-operate in assisting the student to find a roommate.

When a room is once engaged by a student no change will be permitted except with the consent of the Director in the Business Division. Leaving one room and occupying another without permission is strictly against the rule and will render the offender liable to a charge for both rooms for the entire semester. No occupant is permitted to rent or sublet a room to another occupant. Rooms are rented for no shorter period than one semester. When a student leaves school before the end of the semester, the charge is \$1.00 a day unless the total charge on this basis is in excess of the room rent for the semester. All undergraduates who are not residents of Durham are required to live in the dormitories unless they are living with their parents or near-relatives. An undergraduate woman who is over twenty-one years of age and who wishes to live in the city may make special arrangements with the Dean. Provision is made for graduate students to live on the campus.

No visitors are permitted in any section of the dormitories which are occupied by women except by permission of the office of the Head of the House. Merchandising, solicitation, or advertising of any type is strictly forbidden within the dormitories.

BOARDING ACCOMMODATIONS

Trinity College, West Campus.—Beginning with the academic year 1930-31 the University opened its dining hall in the Union on the West Campus with accommodations sufficient to provide in a superior way for all resident men students. Charges for board are approximately \$30.00 per month.

The Union is the logical center of student activities for men, and it will be found desirable for male students to board in its supervised halls. In the Union are located the University Post Office, the University Store, the University Barber Shop, and all publications staff offices.

In addition to the Union dining halls, the Coffee Shop is operated for the convenience of students and visitors.

Woman's College, East Campus.—The dining halls of the Woman's College are situated in the Union and in Southgate. No resident woman is permitted to board elsewhere than at these halls. Board is \$125.00 per semester.

Because of the large number of those served in the dining halls, it is not possible to arrange special diets for individual students. Special diet for the sick is served in the Infirmary.

The Union includes a Faculty dining room, a lounge, and other rooms for various student activities.

LAWS REGARDING PAYMENTS

The Executive Committee of Duke University has enacted the following regulations which govern the payment of all fees due the University:

1. The President and the Treasurer of the University have no authority to suspend or in any way alter these regulations.
2. Matriculation and tuition fees are never refunded.
3. Any student who has failed to pay his bills on the dates advertised in the catalogue is denied the right to attend classes until his account is settled in full.
4. No student is considered by the Faculty as an applicant for graduation until he has settled with the Treasurer for all his indebtedness to the University.
5. No student who has not settled all his bills with the Treasurer of the University is allowed to stand the midyear or final examinations of the academic year.

When a student wishes his bills sent to his parents or guardian, the student or his parent or guardian must so notify the Treasurer of the University in writing in due time, but this in no way releases the student from liability to established penalties, if his bills are not paid on the dates advertised.

TRANSCRIPTS

Students desiring to transfer from Duke University to another institution are entitled to one transcript of their record. A charge of \$1.00 is made for each additional copy.

SCHOLARSHIPS, LOANS, AND EMPLOYMENT AID

Duke University annually awards available scholarships, administers loan funds, and supervises student employment through a committee of the Faculty for deserving undergraduates of Trinity College, the Woman's College, and the College of Engineering.

SCHOLARSHIPS

Scholarships intended to aid needy and deserving students have been established from time to time by persons deeply interested both in Duke University and in the members of its student body. Such scholarships are supported by the income from invested funds. All scholarship endowments are held in trust and are kept separate and distinct from other holdings of the University. All income is faithfully applied in accordance with the terms of the gift or bequest.

In addition, a limited number of scholarships, notably the honorary awards in recognition of scholastic merit and strength of character, are financed through current funds of the University.

Scholarships are awarded annually by a committee of the Faculty appointed by the President of the University. In some cases donors have specified certain limitations and conditions. These are faithfully followed, but in all cases final award is made by the Faculty committee.

As a general rule, scholarships cover tuition charges only, though in some instances provision has been made for larger amounts. Any prospective student may apply for a scholarship. No application, however, may be made formally by a prospective student until application for admission has been made, all necessary credentials have been presented, and notification of acceptance has been given. The number of scholarships available is small in comparison with the number of undergraduate students enrolled in the University, and as a result the committee in making the awards attempts in so far as possible to limit scholarship aid to cases where the need is imperative. Before applying for such aid, a student should first have exhausted all means of aid from parents, kinsfolk, interested friends, and commercial or civic agencies in his home locality.

All applications for scholarship aid should be made to the Scholarship Committee, Secretary's Office, Duke University.

LOAN FUNDS

A number of loan funds have been established for the benefit of students of Duke University. The most important and largest of these is the Angier B. Duke Memorial Student Loan Fund, which is administered through an advisory committee of officers of the University. The amount

available to be loaned annually depends upon the income from investments and on the amount repaid on loans previously made to students.

The same committee of officers administers the other endowed loan funds of the University.

Although a considerable sum accrues annually for loans to students, it is not sufficient to provide for all calls for assistance. The committee in approving loans selects those students who, from the standpoint of character, scholastic attainment, personality, and degree of financial need, are most deserving of consideration.

The following regulations govern the making of all student loans:

1. No loans shall be made to a student who violates any of the regulations of the University or whose classwork is not satisfactory to the Faculty.

2. As a general policy a student is not potentially eligible for loan assistance until he has been in residence at least one semester and until those responsible for the administration of loan funds have had an opportunity to acquaint themselves with the worthiness and the need involved in any particular case.

3. Loans will be made only to students who are taking approved courses of study that lead to a degree, and all loans must be arranged for not later than one week after the beginning of a semester.

4. Every applicant for a loan must present with the application such security as the President of the University may approve, and no money shall be advanced before a note with approved security is in the hands of the Treasurer of the University.

5. No loan will be made to defray any other expenses than those incurred during the academic year for tuition, for matriculation, or for room-rent.

6. Interest at a rate of six per cent annually shall be charged for all loans of money, and the interest must be paid annually.

7. Applications for loans should be made to the Loan Committee, Secretary's Office, Duke University Station. A formal application for loan assistance may be made only on blanks furnished in the Secretary's Office at the time of registration. The granting or withholding of a loan is a matter entirely within the discretion of the Loan Committee. A student is expected to use all other possible means of securing financial assistance before applying for aid from the Loan Fund.

EMPLOYMENT

A number of students each year secure part-time employment on the University campus and in the city. Those in need of such employment may apply to the Secretary of the Committee on Student Aid, Secretary's Office, Duke University. No definite number of such places can be promised. Available places will be assigned in accordance with the merit and the need of the applicants.

HONORS AND PRIZES

To be eligible for Honors a student must earn during the year a credit of not less than thirty semester hours. Students in the Freshman, Sophomore, and Junior classes who earn an average of at least two and one-half quality points per semester hour are given Honors. All semester hours on which a student receives a grade are counted in the determination of Honors.

The degree of Bachelor of Arts or of Bachelor of Science with distinction is conferred upon the following rules:

Students who have completed a minimum of ninety semester hours in Duke University are eligible for general Honors at graduation. Those who earn an average of at least two and one-half quality points per semester hour are recommended for a degree *magna cum laude*. Those who earn an average of at least two and three-fourths quality points per semester hour are recommended for a degree *summa cum laude*. All semester hours taken in Duke University on which a student receives a grade are counted in the determination of Honors.

MEDALS AND PRIZES

The Wiley Gray Medal was established by the late Robert T. Gray, Esq., of Raleigh, North Carolina, to be awarded annually in memory of his brother. It is given for the graduating oration that shall be, in the opinion of a committee, the best, with respect to both declamation and composition.

The Debate Council authorizes the awarding of medals to members of the graduating class who have represented the University in at least two intercollegiate debates. The medals are given by the local chapter of the Tau Kappa Alpha Fraternity.

The Robert E. Lee Prize is the gift of the Reverend A. W. Plyler, of the Class of 1892, and Mrs. Plyler. The sum of \$50 is awarded annually at Commencement, preferably to that member of the Senior Class who in character and conduct, in scholarship and athletic achievement, in manly virtues and capacity for leadership, has most nearly realized the standard of the ideal student. The Dean of the College, the Graduate Manager of Athletics, and the President of the Student Council constitute a committee to draft and adopt regulations governing the award.

Alpha Kappa Psi Medallion. This prize is offered each year to the member of the graduating class who makes the highest record in economics and business administration during his career at the University.

The Willis Smith Prize. Mr. Willis Smith, a member of the Raleigh Bar and Chairman of the Law School Committee of the Board of Trustees of Duke University, awards each year to that member of the graduating class of the Law School who has maintained the highest scholastic average during the entire three years of Law School work, a prize consisting of a set of books selected personally by Mr. Smith each year for that purpose.

Julia Dale Prize in Mathematics. This is a prize of books given annually to the undergraduate who shows the greatest proficiency in the study of the calculus.

The Milmoze Prize, consisting of one year's subscription to the *Electrical World*, is awarded each year to that student from North or South Carolina graduating in the Department of Electrical Engineering, who, in the opinion of the Faculty of that department and as shown by his grades, has made the most progress in electrical engineering during his last year in college.

Institute of the Aeronautical Sciences Awards. Two annual awards, each consisting of a two-year paid-up membership in the Institute and a certificate presented, respectively to the student presenting the best paper before a meeting of the Duke student branch of the Institute, and to that student of the Department of Mechanical Engineering making the highest scholastic record in aeronautical engineering courses.

The Pegram Chemistry Club Prize will be awarded in the spring of each year for scholarship in chemistry, physics, and mathematics. The prize is to consist of one-year junior membership in the American Chemical Society, and a one-year subscription to either the *Journal of the American Chemical Society*, or to *Industrial and Engineering Chemistry*. To qualify for this prize the student must (1) be enrolled as an undergraduate of Duke University and (2) be taking or have taken a fourth-year chemistry course. The winner of this prize is to be selected by a committee consisting of at least one Faculty member and at least two members of the Pegram Chemistry Club; the selection is to be based on the quality-point average for all courses taken in chemistry, physics, and mathematics. In case of a tie equal awards will be given.

The Sigma Xi Prize. The Society of the Sigma Xi, honorary scientific society, is devoted to the encouragement of scientific research, and seeks to stimulate those who show promise of accomplishment in scientific research. As an encouragement to younger men and women the Duke Chapter of Sigma Xi has established the following prizes to be awarded annually to students resident at Duke University: \$20.00 for an undergraduate project or paper, \$20.00 for a Master's thesis or its equivalent, and \$40.00 for a Ph.D. dissertation or its equivalent. Nominations, recommendations, copies of theses, reports or other material must be in the hands of the Secretary of the Chapter on or before May 5.

The Erasmus Club Prize in the Humanities. The Erasmus Club, founded in 1925, a group of Duke faculty members interested in research in language, literature, and the arts, seeks to stimulate interest and study in these fields. To encourage Duke students in this field, the Erasmus Club has established an annual prize, amounting to \$25.00, for the best original essay by an undergraduate which embodies the results of research, criticism, or evaluation in some subject in the humanities. Prospective competitors should consult some member of the Faculty, preferably their major professor. Essays must be typewritten and must be submitted to the president of the Club before the first of April. The Club reserves the right to withhold the prize in case there are no essays of acceptable quality.

STUDENT ORGANIZATIONS AND ACTIVITIES

The Men's Association of Duke University comprises all men students in Trinity College. It functions through its officers and a council to initiate policies and to oversee matters within the control of the student body. The council is composed of nine members: three executive officers, two representatives from the Senior Class, two from the Junior Class, and one from the Sophomore Class, and one from Southgate Dormitory.

The Women's Student Government Association is similar in character to the men's association. Its council is composed of the officers of the association and ex officio of the Y.W.C.A. president and an undergraduate representative.

The Young Men's Christian Association and the *Young Women's Christian Association* are branches of the national student Christian Associations. Each body aims to enrich not only the religious life of its members as individuals but also to promote religious group activity. Delegates are sent each year to summer conferences, state conventions, interstate conventions, and the state Bible and missionary institutes. Every year a series of special religious services is held. The Open Forum Bible Class is conducted under the auspices of the Church Board.

Other organizations and activities include the following:

Bench and Bar Association (Pre-Legal Undergraduates); Classical Club (Men); "Cogs" (College Organization for General Service); Debate Council (Men); Debating Club (Women); Duke University Church (Interdenominational); Duke University Pre-Medical Society (Undergraduate Medical Group); Hoof and Horn Club; Isotes (Independent Social Group—Women); Ministerial Fellowship; Modern Dance Group; Nereidian Club (Women); Poetry Club; Quadrangle Pictures; Student Forum Committee (Women); Student Religious Council; The Duke Players; The Explorers' Club;* Town Boys' Club; Town Girls' Club; Trident Club; Wartime Social Activities Board; Women's Athletic Association; and W. H. Pegram Chemistry Club.

HONORARY ORDERS AND FRATERNITIES (NATIONAL)

Chi Delta Phi (Literary—Women); Kappa Delta Pi (Education); Omicron Delta Kappa (Leadership—Men); Phi Beta Kappa (Scholarship); Phi Eta Sigma (Freshman Scholarship—Men); Pi Mu Epsilon (Mathematics); Sigma Delta Pi (Spanish); Tau Kappa Alpha (Forensic); Tau Psi Omega (French); Theta Alpha Phi (Dramatic).

HONORARY ORDERS AND FRATERNITIES (LOCAL)

Beta Omega Sigma (Sophomore—Men); Delta Phi Rho Alpha (Athletic—Women); 9019 (Scholarship—Men); Ivy (Freshman Scholarship—Women);* Red Friars (Leadership—Men); Sandals (Sophomore—

* Inactive for the duration of the war.

Women); Tombs (Athletic—Men); White Duchy (Leadership—Women).

ENGINEERING ORGANIZATIONS AND FRATERNITIES

American Institute of Electrical Engineers; American Society of Civil Engineers; American Society of Mechanical Engineers; Institute of the Aeronautical Sciences; Delta Epsilon Sigma (Duke Honorary Engineering Fraternity); Engineering Student Government Association; Engineering Town Boys' Club.

MUSICAL ORGANIZATIONS AND FRATERNITIES

Kappa Kappa Psi (National Band Fraternity);* The Duke University Instrumental Music Association, comprised of members from Duke University Band, Duke University Orchestra, and chamber music groups; The Men's Glee Club; The Women's Glee Club; The University Chapel Choir; The Woman's Music Study Club.

SOCIAL FRATERNITIES (NATIONAL)

(The Men's Panhellenic Council)

Alpha Tau Omega; Beta Theta Pi; Chi Phi; Delta Sigma Phi; Delta Tau Delta; Kappa Alpha; Kappa Sigma; Lambda Chi Alpha; Phi Delta Theta; Phi Kappa Psi; Phi Kappa Sigma; Pi Kappa Alpha; Pi Kappa Phi; Sigma Alpha Epsilon; Sigma Chi; Sigma Nu; Sigma Phi Epsilon; Zeta Beta Tau.

SOCIAL SORORITIES (NATIONAL)

(The Women's Panhellenic Council)

Alpha Chi Omega; Alpha Delta Pi; Alpha Phi; Alpha Epsilon Phi; Delta Delta Delta; Delta Gamma; Kappa Alpha Theta; Kappa Delta; Kappa Kappa Gamma; Phi Mu; Pi Beta Phi; Sigma Kappa; Zeta Tau Alpha.

STUDENT PUBLICATIONS

(Publications Council)

Archive (Monthly); *Chanticleer* (Annual); *Chronicle* (Semiweekly); *Duke 'n' Duchess* (Monthly Humor);* *DukeEngineer* (Bimonthly).

STUDENT ACTIVITIES OFFICE

The Student Activities Office was established for the purpose of assisting and co-ordinating the financial activities of the various student organizations in Trinity College.

The office offers to student organizations a banking service through the office of the University Treasurer.

There is no charge for this service.

The Student Activities Office, co-operating with the University Purchasing Department, also serves in the capacity of purchasing agent for its affiliated student organizations. Problems of a general nature having to do with extracurricular activities may be discussed with this office.

* Inactive for duration of the war.

THE GRADUATE SCHOOL
OF ARTS AND SCIENCES

1944-1945
ANNOUNCEMENTS FOR 1945-1946

GRADUATE INSTRUCTION IN DUKE UNIVERSITY

ADMISSION

TO GRADUATE COURSES

A student who has received the A.B. or B.S. degree from an institution of recognized standing for a four-year undergraduate course may be admitted to take graduate courses in the Graduate School of Arts and Sciences of Duke University, provided that his undergraduate record gives positive evidence of ability to undertake graduate study successfully. An average grade of not less than "B" is ordinarily accepted as evidence of such ability.

Applicants for admission are encouraged, and may be required, to take the Graduate Record Examination administered by the Graduate Record Office, 437 West 59th Street, New York City, which, on application, will suggest a convenient examination center. The scores made on this examination will be welcomed as an especially desirable credential. Students who take the Graduate Record Examination must make their arrangements directly with the Graduate Record Office, which charges a nominal fee of three dollars.

No college or university work taken before the Bachelor's degree is conferred, or fully earned, may be credited toward an advanced degree except under the following circumstances: A student of Duke University who lacks at the beginning of a semester not more than nine semester hours of fulfilling the requirements for the Bachelor's degree may obtain permission from the Dean of the Graduate School to take during the semester graduate courses sufficient to bring his total work to fifteen hours a week. Such graduate courses will be credited toward the degree of Master of Arts or Master of Education if registered in the Graduate School Office at the beginning of the term and if the student meets the requirements below for formal admission to the Graduate School.

A candidate for admission to graduate courses should ask the proper officer of the college(s) he attended to send directly to the Dean of the Graduate School an official transcript of his undergraduate record. An advanced student should provide also a transcript of the graduate work completed by him. Students who have attended more than one college or university should note that certification by one institution of work completed at another institution cannot be accepted. In no case will a transcript presented by the candidate himself be accepted as a basis for admission, nor will a transcript mailed by any institution be returned to the student. An application blank for admission will be provided upon request to the Dean of the Graduate School. The transcript and application should be submitted to the Graduate School by September 1 for admission in the autumn semester and by January 10 for admission in the spring semester.

TO THE GRADUATE SCHOOL

After twelve semester hours of graduate work, the student may apply for admission to the Graduate School, and thus become a candidate for the Master's degree. Such admission is dependent upon the fulfillment of two conditions. (1) The student must have made a mark of "G" or "Good" in at least three semester hours of work, with no mark less than "S." Candidates who cannot meet this condition may at a later time submit their records for re-evaluation, provided that in their subsequent work they shall have made a substantial number of "G's." (2) The student in his undergraduate work must have met substantially the requirements for the A.B. or B.S. degree at Duke University.* Any deficiencies of undergraduate work must be satisfied before admission to the Graduate School. Graduate courses taken at Duke University prior to formal admission to the Graduate School will count toward a higher degree provided they are in accord with its requirements and are acceptable to the major department. A graduate student may be requested to withdraw from the University at the discretion of the Dean of the Graduate School.

REGISTRATION

A student who is admitted to graduate courses will receive a permit to register, which he should present when he registers for courses. Before actually registering in the Graduate School Office, the student should consult with the Director of Graduate Studies or his representative in the department in which he proposes to major and receive written approval of his schedule of courses. This can be done during the registration period in September and January. The department concerned will determine whether a student is prepared to take any particular course. In all cases the student must make up without credit toward a graduate degree all prerequisites required by the major department of candidates for advanced degrees. Students who have fulfilled the minimum residence requirements for the doctorate but who are continuing resident study at Duke University for the degree should register in the Graduate School Office, even though there may be no fees to be charged.

New students are advised to arrive early during the registration period in order to formulate their programs. *Anyone registering for courses after the close of the regular registration period will be charged a late registration fee of five dollars.*

TUITION AND FEES

GENERAL FEES IN THE ACADEMIC YEAR

The following table shows the general fees and charges collected from all students and the special fees collected from those taking courses in the sciences. All fees for each semester are due and payable, unless otherwise specified, at the time of registration at the beginning of that

* In meeting the requirements for the A.B. or B.S. degree at Duke University, a student is not allowed excessive concentration in any one field. The same principle is applied in evaluating the undergraduate record of candidates for admission to the Graduate School.

semester. No student is admitted to classes until arrangements have been made with the Treasurer of the University for the settlement of fees.

Matriculation, per semester.....	\$ 25.00
Tuition, per semester.....	100.00
Athletic Fee, admitting students to all athletic contests held on the University grounds, per semester.....	5.00
Damage Fee, payable annually in September.....	1.00
Medical Fee, per semester.....	5.00
Library Fee, per semester.....	5.00
Commencement Fee, payable once by graduate students in the last semester before a degree is conferred.....	3.00
Diploma Fee, payable by candidates for degrees at the beginning of the second semester, refunded if the diploma is not awarded.....	5.00
Special Thesis Fee, payable by candidates for Ph.D. degree in the last semester before the degree is granted. Returned on satisfactory publication of thesis.	50.00

SPECIAL FEES

Graduate students in the sciences are required to pay the regular laboratory fees for courses as determined by the various departments. An administrative fee is charged in connection with special research work in the summer under direction of a member of the Faculty.

STUDENTS FROM THE UNIVERSITY OF NORTH CAROLINA GRADUATE SCHOOL

Under an experimental plan of co-operation between the University of North Carolina and Duke University, regular students from the University of North Carolina Graduate School admitted to courses in the Duke University Graduate School pay a registration fee of two dollars and any laboratory or special course fees which are required of all students.

TRANSCRIPTS

A student desiring to transfer from Duke University to another institution is entitled to one free transcript of his record. A charge of one dollar, payable in advance, is made for each additional copy. Transcripts of students who enroll in graduate courses only in the summer sessions are issued by the Summer Session Office prior to the fulfillment of all requirements toward an advanced degree, after which time they can be obtained in the regular way from the Graduate School.

PAYMENTS TO FELLOWS, SCHOLARS, AND GRADUATE ASSISTANTS

Payments by the University of stipends to fellows, scholars, and graduate assistants are made in four equal installments, approximately the middle and end of each semester. Tuition and fees are charged against the stipends.

Fellows and scholars are required to pay the regular tuition and fees and are expected to take a full program of work. Assistants who are permitted to register for only four fifths of a regular program are charged a proportionate amount of the tuition in addition to the regular matriculation and other minor fees.

SPECIAL CHARGES FOR TEACHERS AND OTHERS

For the purpose of aiding North Carolina teachers in their professional preparation, Duke University grants a special tuition rate to members of the faculties of near-by schools and colleges who desire to register during the regular academic session for one or two graduate courses. For such courses a teacher regularly employed and teaching while taking these courses is charged a registration fee of five dollars at the beginning of each semester and a tuition fee of three dollars per semester hour of course credit, together with any laboratory fees which may be required in these courses. Under this provision a student may not register for more than seven hours per week.

Employees of Duke University who are paid on a monthly basis throughout the year, ministers of near-by churches, and wives of the Duke Faculty may be included under the above provisions by the Dean of the Graduate School, provided that such persons do not receive residence credit in any semester for more than two fifths of a regular program in meeting the requirements for advanced degrees.

The special tuition rate for teachers does not apply in any case to the holders of fellowships, graduate scholarships, and graduate assistantships annually awarded in the Graduate School nor to teachers on leave of absence and not actually engaged in their teaching at the time of registration.

FELLOWSHIPS, SCHOLARSHIPS, AND ASSISTANTSHIPS

For the assistance and encouragement of graduate students of high character and marked ability, the University has established a considerable number of fellowships and scholarships. Holders of fellowships and scholarships will be expected to pay the tuition fee and such additional fees as are regularly required. Applications for these appointments together with supporting credentials should be received on or before March 1 of each year. In case vacancies occur, applications submitted on a later date will be considered. Appointments which were offered for the year 1945-46 are listed below.

FELLOWSHIPS

One Angier Duke Memorial Fellowship of one thousand dollars.

Twenty university fellowships with stipends varying from six hundred to eight hundred and fifty dollars each.

Two Gurney Harriss Kearns Fellowships in Religion of seven hundred dollars each.

Fellows will be required to give a limited amount of assistance in reading papers, in laboratories, or in other departmental duties. All fellows carry a full program of graduate work.

GRADUATE SCHOLARSHIPS

Twenty-five graduate scholarships with stipends varying from four hundred to four hundred and fifty dollars each.

Scholars may be asked to give a limited amount of assistance in departmental work. They normally carry a full program of graduate studies.

CHARLES W. HARGITT RESEARCH FELLOWSHIP IN ZOOLOGY

The Charles W. Hargitt Research Fellowship in Zoology, carrying a stipend of \$1,000, is restricted to research work in the field of *Cytology*. Appointment is for a single year, with the possibility of reappointment. The fellowship is primarily for postdoctoral research. Inquiries and applications should be made to Dr. George T. Hargitt, Biology Building, Duke University, Durham, North Carolina.

FELLOWSHIPS AND GRADUATE SCHOLARSHIPS IN FORESTRY

Information regarding special fellowships and graduate scholarships in forestry may be obtained before March 1, 1946, from the Dean of the School of Forestry, Duke University, Durham, North Carolina.

APPOINTMENTS AS GRADUATE ASSISTANTS

A considerable number of appointments as teaching assistants or readers will be available for graduate students. The compensation will usually range from \$300 to \$700, depending upon the nature and amount of the work assigned. Assistants receiving \$500 or more will be registered for four fifths of a normal program of studies and accordingly will receive four fifths residence credit. Assistants in this classification will be charged four fifths of the tuition fee, and the same matriculation and minor fees as other students.

THE LIBRARY

The total number of volumes in the University Libraries on June 30, 1944, was 705,925 volumes. These were distributed among four main units: the General Library with 525,197 volumes; the Hospital (Medical) Library, 41,579 volumes; the Library of the Law School, 76,274 volumes; and the Woman's College Library, 62,875 volumes.

The work of students in the Graduate School is carried on primarily in the General Library. A Reading Room, which contains the reference material most in demand, provides a quiet and convenient place for study. Graduate students are also admitted freely to the stacks. Within the stacks are located 108 carrells or desks which are assigned on an annual basis, preference being given to students in the Graduate School. To facilitate work in the natural sciences, the General Library maintains departmental libraries adjacent to laboratories for the Departments of Chemistry, Physics, and Biology. Departmental libraries are also maintained for the Divinity School, the College of Engineering, and the School of Forestry.

In the field of mathematics and the sciences particular attention has been given to securing files of important journals and serials. A check-list of all scientific periodicals and serials on the University campus shows a total of approximately 2,460 files in a more or less complete form. The total number of current periodicals received by subscription, exchange, and gift in 1943-44 was 2,969, exclusive of duplicates.

In the field of the social sciences and the humanities every effort has been made to secure the basic collections of source material as well as the

more important publications of criticism and discussion. This has been done by the acquisition of such sets as the *Die Griechischen Christlichen Schriftsteller der ersten drei Jahrhunderte*, *Corpus Scriptorum Ecclesiasticorum Latinorum*, Migne's *Patrologia*, the *Corpus Scriptorum Historia Byzantiae*, the *Monumenta Germaniae Historica*, the *Acta Sanctorum*, the *Corpus Reformatorum*, the catalogues of the manuscript collections of the larger European libraries, complete files of the publications of the League of Nations, the International Labor Office, and many others. The endeavor to select the more important items in the various fields of graduate work has been supplemented by the purchase of a number of special collections and libraries. Among the more important of these might be mentioned a Peruvian library of approximately seven thousand books and manuscripts; a library of several thousand volumes dealing with Brazil; the Robertson library of Philippiniana; the Lanson Collection of French literature consisting of twelve thousand books and monographs; a Goethe collection of one thousand volumes; a Scandinavian collection of three thousand volumes; a collection of about five thousand items of early Americana, dating from the seventeenth century to 1820; the Holl church history library dealing primarily with the period of the Reformation; a collection of many thousands of church minutes and records of American denominational history; two collections of eighteenth-century English poetry and prose totaling about five thousand items; two special collections, one dealing primarily with Byron and the other with Coleridge, containing a number of manuscripts, annotated copies, and first editions; a collection of material on the Fourier movement; and the Thomas Collection of books on Chinese history and culture. Special mention should be made of the George Washington Flowers Collection of manuscripts, books, newspapers, and pamphlets dealing with all phases of Southern history, and of the Trent Collection of Walt Whitman books and manuscripts.

PUBLIC DOCUMENTS

The importance of public documents as fundamental source materials for the social sciences and as containing also some of the most important work in the field of applied science is being clearly recognized, and an excellent start has been made toward a comprehensive collection of this chambers, are available for the study of the properties of extremely high material. The Library has been a depository for Federal documents since 1890. State documentary publications are also being systematically collected in co-operation with the University of North Carolina. Of European public documents a representative collection has been secured. Among the more notable items might be mentioned the *British Parliamentary Papers* (since 1925), *Calendar of State Papers*, the *Acts of the Privy Council*, *Hansard's Debates*, the *Débats Parlementaires* of the French Senate and Chamber of Deputies, the *Journal Officiel de la République Française*, the *Bulletin des Lois de la République Française*, the *Reichsgesetzblatt*, the *Verhandlungen des Reichstages*, the *Atti* of the Italian Parliament, and the *Diario* of the Spanish Cortes. The public documents

of the Latin-American countries, especially Argentina, Brazil, Chile, and Peru, form one of the strongest units of the Library.

Under this heading should be mentioned also the Library of Professor Louis Strisower, Sometime President of the Institute de Droit International, which contains approximately five thousand volumes dealing with international law. The volumes date from the seventeenth century to the present and contain some especially valuable periodical files and rare books.

PUBLICATIONS OF EUROPEAN ACADEMIES

The Duke University Library has the publications of many of the European academies, containing monographs in most of the fields of knowledge and constituting important sources for the research programs of graduate students and Faculty. The sets comprise about two thousand volumes and include *Preussische Akademie der Wissenschaften* (Berlin); *Gesellschaft der Wissenschaften zu Göttingen*; *Sächsische Akademie der Wissenschaften* (Leipzig); *Bayerische Akademie der Wissenschaften* (Munich); *Heidelberger Akademie der Wissenschaften*; *Akademië der Wissenschaften* (Vienna); *Académie des sciences* (Paris); *Académie des inscriptions et belles-lettres* (Paris); *Académie des sciences morales et politiques* (Paris); *Accademia nazionale dei lincei*; *Accademia pontificia dei nuova lincei* (Rome); *Real academia española* (Madrid); *Academia de la historia* (Madrid); *Akademia nauk* (Leningrad); *Dansk videnskabsbernes selskab* (Copenhagen); *Norsk videnskapsakademi i Oslo*; *Akademie van Wetenschappen* (Amsterdam); *Académie royale des sciences, des lettres et des beaux-arts de Belgique* (Brussels); *Akademija umiejtnosci* (Krakow).

NEWSPAPERS

The Library collection of newspapers contains around twelve thousand volumes. Practically all states of the Union are represented, although the major part of the collection is from along the Atlantic seaboard. Of the eighteenth-century items, the states best represented are Massachusetts, Maryland, New York, Rhode Island, Virginia, North Carolina, South Carolina, and Georgia. There is an excellent collection of nineteenth-century New England papers. The World War period is unusually strong with about twenty-eight titles practically complete for 1914-19. There is a group of papers from Germany in the years just after the World War. Special emphasis has been placed on the Southern States, and there are numerous volumes of papers from North Carolina, South Carolina, and Virginia, representing the Colonial period, the Antebellum period, and the Civil War period. The current subscription list of eighty-three titles represents American public opinion and contains fourteen important foreign titles.

MANUSCRIPTS

The manuscript collection now contains 882,223 items relating chiefly to the South Atlantic region. Most numerous are records of military,

social, and economic life in the Confederate period including letters, diaries, rosters, military reports, statutes of the Confederate Congress, court records, and papers of various departments of the Confederate Government. Outstanding among the many papers providing a well-rounded picture of life in the South during the nineteenth century are original census returns of Georgia, Kentucky, Louisiana, and Tennessee for 1850 and 1860. The collection, most copious in the field of history, contains information on all phases of social and economic life as well as politics. Numerous large collections bear particularly on the history of Alabama, Georgia, North Carolina, South Carolina, and Virginia. Of interest for historical studies are the papers of P. G. T. Beauregard, John C. Calhoun, David Campbell, Robert Carter, Clement C. Clay, Henry Clay, William H. Crawford, John J. Crittenden, Jefferson Davis, Nathanael Greene, Andrew Jackson, Robert E. Lee, Alfred T. Mahan, Alexander H. Stephens, and others. The field of American literature is represented by papers of Thomas Holley Chivers, John Esten Cooke, Clara V. Dargan, Paul Hamilton Hayne, George Frederick Holmes, Alexander B. Meek, Thomas Nelson Page, Augustin L. Taveau, and Walt Whitman. Among the non-Southern materials there are interesting groups of papers centering on George Moore, the Rossettis, Robert Southey, and Tennyson. Of the medieval manuscripts, consisting chiefly of lectionaries and copies of the New Testament, one thirteenth-century New Testament in Greek is noteworthy. The Library has recently acquired the official files of the Socialist Party of America extending from 1901 to 1938, and a collection of the papers of George Holyoake.

EXCHANGE PRIVILEGES WITH THE LIBRARY OF THE UNIVERSITY OF NORTH CAROLINA

The libraries of Duke University and of the University of North Carolina have arrangements for the fullest exchange of privileges and resources. Each library contains a catalogue of the contents of the other, and books requested from the other library are supplied through a delivery service which operates weekly. Faculty members and graduate students may secure cards admitting them to the stacks of the other library. The Library of the University of North Carolina contains approximately 450,000 volumes, besides a large collection of manuscripts relating to Southern history. Under this arrangement more than 1,150,000 volumes are available to students in the combined libraries.

SCIENCE LABORATORIES BIOLOGICAL LABORATORIES

The Biology Building on the West Campus contains three refrigerated rooms, an incineration room, a workshop, an aquarium room, five animal rooms connected with outside yards, and eight dark rooms. Special laboratories are provided for advanced work in plant and animal physiology, parasitology, cytology, taxonomy, bacteriology, ecology, histology, my-

cology, anatomy, embryology, endocrinology, entomology, forest soils, and wood anatomy and properties. A 300-acre arboretum is being developed adjacent to the campus with Dr. E. S. Harrar in charge. A greenhouse gives adequate space for experimental work and propagation. There is an herbarium of some fifty thousand specimens of all plant groups with a large representation of the Southern flora. Dr. H. J. Oosting is Curator of the Herbarium, and Dr. I. E. Gray is Curator of the Zoological Museum. On the East Campus, laboratories are provided for undergraduate women, and there is a small greenhouse near the Science Building. Laboratories and rooms for students doing research are equipped with vacuum, compressed air, direct and alternating current, gas, and running water. Proper equipment and supplies for biological work are available.

The Duke Forest and its streams provide excellent collecting grounds. The Duke Forest is under the management of the School of Forestry. Duke University is situated in the Piedmont region, between the mountains and the coastal plains. This gives easy access to a varied flora and fauna. North Carolina is the home of the tulip poplar, holly, rhododendron, mountain laurel, flowering dogwood, several species of insect-catching plants, cypress, and other interesting plants. Among the animals are a varied assortment which range from marine to mountain species. In the woods about the University there is a great variety of animals.

The Duke Marine Laboratory at Beaufort, North Carolina, provides facilities for work on plants and animals in and near the ocean. It is situated on Piver's Island, adjacent to the Biological Laboratory of the United States Fish and Wildlife Service. Dr. A. S. Pearse is Director.

PHYSICAL LABORATORIES

The physical laboratory contains approximately an acre of floor space which is devoted to instruction and research. In addition to the usual lecture and elementary laboratory facilities, laboratories are provided for work in electrical measurements, optics, atomic physics, and advanced measurements in general physics.

Rooms are provided for various instruments of research in spectroscopy, such as a 10-foot concave grating which is used in conjunction with a 32-meter-long stainless steel pipe for study of weak absorption; a vacuum spectrograph with a 2-meter glass grating; an apparatus for the study of the Raman spectra of gases photographed with a large 3-prism glass f 2.5 glass Zeiss spectrograph and various other spectroscopic instruments, such as the Hilger E-1, Moll microphotometer, etc.

Research facilities, such as counters, cloud chambers and ionization energy particles such as those present in the cosmic radiation.

A well-equipped shop operated by trained instrument makers makes possible the development of instructional and research apparatus. A shop is also provided for the use of the Staff and graduate students.

CHEMICAL LABORATORIES

Graduate work in chemistry is carried on in a modern building with a floor area of about 57,000 square feet. Of this total space a large proportion is available for research and advanced teaching. There are twenty-five double research rooms completely equipped with the usual services. In addition, a number of specially designed rooms are available for present or future research, such as a photographic room, constant temperature room, distillation room, combustion room, bomb room, and rooms equipped with dielectric constant and magnetic measurements.

A glass-blowing room and a well-equipped shop, operated by a competent mechanic, provide facilities for the construction of special apparatus and for the repair and maintenance of instruments.

MEDICAL SCHOOL

In the School of Medicine elaborate facilities are provided for post-graduate research in the various branches of medical science. The Departments of Anatomy, Bacteriology and Immunology, Biochemistry, and of Physiology, Pharmacology, and Nutrition offer certain courses and adequate research facilities to students in the Graduate School of Arts and Sciences. The use of the Duke Hospital Library is available to all graduate students.

THE DUKE FOREST

Through placing the Duke Forest under intensive management for forestry purposes, substantial progress has been made in developing the educational work and research in forestry. The Duke Forest consists of approximately six thousand acres of land, most of which is adjacent and easily accessible to the University campus. Situated in the lower Piedmont region and composed of second-growth shortleaf pine, loblolly pine, and hardwoods, the Forest is representative of the various types of timber growth and soils found throughout the region.

The proximity of the Forest to the laboratories, greenhouses, and library facilities of the University provides an excellent opportunity for advanced study and research in forestry. Research, particularly in the fields of silvics, forest soils, silviculture, forest management, properties of wood, forest-tree physiology, and forest pathology, is well under way. Several members of the Botany and Zoology Staffs are also engaged on research in the Duke Forest.

For additional information see the *Bulletin of the School of Forestry*.

ENCOURAGEMENT OF RESEARCH

The President of the University appoints annually a University Council on Research. The members of this Council are chosen from the Faculties of the Schools of Medicine and Law, the Divinity School, and the Graduate School of Arts and Sciences. In May of each year the Council on Research receives written applications from members of the Faculty for subsidies to be used in the following fiscal year to aid them in

carrying out research projects. Stipends are granted for the employment of research assistants, for the purchase of books, and for apparatus, supplies, and equipment. Each member of the Faculty to whom a research stipend is granted must make a written report within twelve months to the Council concerning the progress of the investigation for which the stipend was allowed.

SPECIAL LECTURES

During each academic year the University Lecture Committee arranges for a number of special lectures of value to graduate students interested in various fields of knowledge. The Woman's College Lecture Series brings other guests to the campus. In addition to these lectures, a number of distinguished speakers appear each year on the programs of various schools and departments of the University.

Among the guest lecturers in 1944-45 were Mr. Tom Connolly, Chairman of the Foreign Relations Committee of the United States Senate, and Mr. Eric Johnston, President of the Chamber of Commerce of the United States.

THE UNIVERSITY PRESS

In 1897 Trinity College began sponsoring the publication of "The Papers of the Trinity College Historical Society," which was distributed to members of the Society and on exchange to other institutions. This series was the first publishing venture of the College. In 1902, the 9019, an honor scholastic society on the campus, founded *The South Atlantic Quarterly*, which is now published by the Press.

In 1921 the Trinity College Press was established to publish the results of research engaged in by the Faculty and such other works as were approved by a board of editors appointed for the purpose. In 1925, with the acceptance of the benefaction of James B. Duke, Trinity College became one of the undergraduate colleges of Duke University, and the following year the University Press was organized to succeed the Trinity College Press.

One of the first steps of the new organization was to revive *The Hispanic American Historical Review*, which had been founded and published from 1918 to 1922 by a group of scholars interested in Hispanic America. Since 1926 its publication has been continued without interruption, and its mission has been supplemented by many studies dealing with the history, politics, and foreign relations of the Hispanic nations of the New World. In 1929 *American Literature* was begun with the co-operation of the American Literature Group of the Modern Language Association. This journal was followed in 1931 by *Ecological Monographs*, a quarterly sponsored by the Ecological Society of America, to take care of papers too long for inclusion in *Ecology*. *Character and Personality*, an international quarterly appearing simultaneously in the United States and Great Britain, was founded in 1932 as a medium for the publication of studies in fields related to this phase of psychology. In 1935 the Press started the publication of the *Duke Mathematical*

Journal, with the co-operation of the Mathematical Association of America, and in 1937 *The Journal of Parapsychology* for the publication of the results of research in extrasensory perception and related topics. For the Southern Association of Colleges and Secondary Schools, the Press publishes *The Southern Association Quarterly*, the official organ of the Association. The Law School of Duke University sponsors *Law and Contemporary Problems*, presenting a symposium of some important legal problem in each number.

Besides its books, monographs, and regular quarterly publications the Press issues "Contributions to Psychological Theory" and "Duke University Research Studies in Education," the latter sponsored by the Department of Education of the University.

Since its organization the Press has offered to the public the products of scholarly research to the number of more than one hundred and twenty-five volumes. It has not limited its scope to any one field or to any one group of authors. In addition to the many works submitted by members of the Faculty, a great number of titles by authors without a connection with the University have been issued under the imprint of the Press.

In the broadest sense, the present policy of the Press is to give to the public any scholarly work which, because of the merit of its contents, its style, and its general value, deserves publication.

COURSES OF INSTRUCTION

This is a condensed description of courses. For a full description, see Bulletin of the Graduate School.

Certain undergraduate courses are open to graduate students with the approval of the department. See the Bulletin of Undergraduate Instruction.

DIVISION OF ANCIENT LANGUAGES AND LITERATURES

PROFESSORS CLARK, ROGERS, STINESPRING; ASSISTANT PROFESSOR WAY;
DRS. ROSE AND TRUESDALE

GREEK

FOR SENIORS AND GRADUATES

- 201-202. Greek Tragedy.—6 s.h. DR. ROSE
- 203-204. Homer.—*Odyssey*. Pindar and Bacchylides. 6 s.h.
ASSISTANT PROFESSOR WAY AND DR. TRUESDALE
- 205-206. Greek Historians.—6 s.h. DR. ROSE
- 207-208. Greek Orators.—6 s.h. ASSISTANT PROFESSOR WAY
- 209-210. Plato.—*Symposium*, *Protagoras*, and parts of the *Republic*. 6 s.h.
ASSISTANT PROFESSOR WAY
- 211-212. Aristophanes.—6 s.h. DR. ROSE
(Only one of the six courses listed above is offered each year.)
243. Athenian Topography.—3 s.h. ASSISTANT PROFESSOR WAY
- Greek Epigraphy.—3 s.h. ASSISTANT PROFESSOR WAY
245. Greek Dialects.—3 s.h. ASSISTANT PROFESSOR WAY
246. Greek Historical Inscriptions.—3 s.h. ASSISTANT PROFESSOR WAY
- 247-248. Greek Archaeology.—6 s.h. ASSISTANT PROFESSOR WAY
- (Of the courses numbered from 243 to 248, only two semester-courses are offered each year.)
257. Social and Cultural History of the Hellenistic World from Alexander to Augustus.—3 s.h. PROFESSOR ROGERS; DR. TRUESDALE

FOR GRADUATES

The more advanced work of the graduate department is done in the seminar. One author or group of authors forms the center of study each year. Seminars are offered in Aristophanes (301-302), The Greek Historians (303-304), The Attic Orators (305-306), and The Greek Tragic Poets (307-308). These run through a cycle of four years. In 1945-46 the work will be:

- 301-302. Seminar in Aristophanes.—6 s.h. DR. ROSE

Graduate students of Duke University may attend the American School of Classical Studies in Athens, Greece, without charge for tuition, and they are

eligible to compete for the fellowships that are offered annually by the School. These consist of two fellowships in Greek archaeology, and one in the language, literature, and history of ancient Greece, each with a stipend of \$1,300. They are awarded mainly on the basis of examinations held in the beginning of February of each year.

LATIN AND ROMAN STUDIES

FOR SENIORS AND GRADUATES

201. Roman Fiction.
202. Latin Christian Writers.
- 203-204. Roman Epic: Ennius, Vergil, Manilius, Lucan, Flaccus, Statius, Silius.—6 s.h.
- 205-206. Roman Drama: Plautus, Terence, Seneca.—6 s.h.
- 207-208. Roman Philosophy.
- 209-210. Vulgar Latin: Introduction to Romance Philology.
- 211-212. Roman Oratory.—6 s.h. PROFESSOR ROGERS
215. Introduction to Roman Art and Archaeology.
216. Topography and Monuments of Ancient Rome.
- 251-252. Roman Life.
258. Social and Cultural History of the Graeco-Roman World.—3 s.h. PROFESSOR ROGERS
- 281-282. Roman Historical Literature. PROFESSOR ROGERS
- 283-284. Roman Law.—6 s.h. PROFESSOR ROGERS

FOR GRADUATES

- 309-310. Sight Reading and Composition.—6 s.h. DR. ROSE
- 311-312. Latin Epigraphy.—6 s.h. PROFESSOR ROGERS

Seminars: Various authors or historical periods are selected from year to year as a basis for training in criticism and research. Seminars are offered in the following: Catullus (301-302), Roman Historians (331-332), Roman Provincial Administration (341-342), The Reign of Tiberius (343-344), Martial (351-352), Horace (361-362), Lucretius (371-372), and Cicero's Public Career (391-392). The seminar planned for 1945-46 is:

- 331-332. Roman Historians.—6 s.h. PROFESSOR ROGERS

LINGUISTICS

FOR GRADUATES

- 375-376. Greek and Latin Linguistics.—6 s.h. DR. ROSE
- 385-386. Elementary Sanskrit.—6 s.h. DR. ROSE

SEMITICS

FOR SENIORS AND GRADUATES

- 201-202. First Hebrew.—6 s.h.
- 205-206. Elementary Arabic.—6 s.h. PROFESSOR STINESPRING
[Not offered in 1945-46]
- 207-208. Second Hebrew.—6 s.h. PROFESSOR STINESPRING

FOR GRADUATES

304. Aramaic.—3 s.h. PROFESSOR STINESPRING
 305. Third Hebrew.—3 s.h. PROFESSOR STINESPRING
 [Not offered in 1945-46]
 309. History of the Ancient Near East.—3 s.h. PROFESSOR STINESPRING
 315. Judaism at the Beginning of the Christian Era.—3 s.h.
 320. Rabbinic Literature.—3 s.h.

RELATED COURSES IN OTHER DEPARTMENTS

- Philosophy 217. Philosophy of Aristotle.—3 s.h. DR. McLARTY
 [Not offered in 1945-46]
 Religion 217. The New Testament in Greek.—3 s.h. PROFESSOR CLARK
 Religion 218. Galatians and I Corinthians.—3 s.h. PROFESSOR CLARK
 Religion 220. I Peter and the Gospel of John.—3 s.h. PROFESSOR CLARK
 [Not offered in 1945-46]
 Religion 313. The Apostolic Fathers.—3 s.h. PROFESSOR CLARK
 Religion 314. Early Christian Apologists.—3 s.h. PROFESSOR BRANSCOMB
 Religion 316. Hellenistic Religions at the Beginning of the Christian Era.
 —3 s.h. PROFESSOR CLARK
 Religion 318. Text of New Testament.—3 s.h. PROFESSOR CLARK
 [Not offered in 1945-46]

BOTANY

PROFESSOR BLOMQUIST, CHAIRMAN—203 BIOLOGY BUILDING; PROFESSORS BEAL,
 KRAMER AND WOLF; ASSOCIATE PROFESSORS ADDOMS, HARRAR, AND OOSTING;
 ASSISTANT PROFESSORS ANDERSON AND PERRY

FOR SENIORS AND GRADUATES

202. Genetics.—Prerequisites: one year of botany, zoology, or equivalent,
 and college algebra. 4 s.h. ASSISTANT PROFESSOR PERRY
 203. Plant Cytology.—Prerequisite: one year of botany. 4 s.h.
 [Not offered in 1945-46] ASSISTANT PROFESSOR ANDERSON
 204. Advanced Plant Anatomy.—Prerequisite: Botany 55 or equivalent.
 4 s.h. ASSOCIATE PROFESSOR ADDOMS
 216. Botanical Microtechnique.—Prerequisite: two semesters of botany.
 4 s.h. ASSOCIATE PROFESSOR ADDOMS
 221. Structure and Classification of Fungi.—Prerequisite: two semesters
 of botany. 4 s.h. PROFESSOR WOLF
 225-226. Special Problems.
 (a) Bacteriology, Mycology, and Plant Pathology. PROFESSOR WOLF
 (b) Cytology. ASSISTANT PROFESSOR ANDERSON
 [Not offered in 1945-46]
 (c) Ecology. ASSOCIATE PROFESSOR OOSTING
 (d) Genetics. ASSISTANT PROFESSOR PERRY
 (e) Morphology and Anatomy of Higher Plants.
 ASSOCIATE PROFESSORS ADDOMS AND HARRAR;
 ASSOCIATE PROFESSOR OOSTING

- (f) Morphology and Taxonomy of Lower Groups. PROFESSOR BLOMQUIST
 (g) Physiology. PROFESSOR KRAMER; ASSOCIATE PROFESSOR ADDOMS
 (h) Plant Microchemistry. ASSOCIATE PROFESSOR ADDOMS
 (i) Taxonomy of Higher Groups. PROFESSOR BLOMQUIST
 252. Advanced Plant Physiology.—Prerequisite: Botany 151 or equivalent;
 organic chemistry recommended. 4 s.h. PROFESSOR KRAMER
 255. Advanced Taxonomy.—Prerequisite: two years of botany, including
 Botany 52 or equivalent. 4 s.h. PROFESSOR BLOMQUIST
 256. Field Ecology.—Prerequisites: Botany 1, 2 and 52, or equivalent.
 4 s.h. ASSOCIATE PROFESSOR OOSTING

FOR GRADUATES

305. Plant Geography.—Prerequisite: Botany 156 or equivalent. 4 s.h.
 ASSOCIATE PROFESSOR OOSTING
 310. Structure and Classification of Bryophytes and Pteridophytes.—Pre-
 requisite: two years of botany. 4 s.h. PROFESSOR BLOMQUIST
 311. Structure and Classification of Algae.—Prerequisite: two years of
 botany. 4 s.h. PROFESSOR BLOMQUIST
 341. Methods in Plant Physiology.—4 s.h. PROFESSOR KRAMER
 342. Plant Microchemistry.—2 s.h. ASSOCIATE PROFESSOR ADDOMS
 359-360. Research in Botany. STAFF
 397-398. General Botanical Seminar.—2 s.h. STAFF

FOREST BOTANY

FOR SENIORS AND GRADUATES

224. Forest Pathology.—Prerequisites: Botany 1, 2. 3 s.h.
 PROFESSOR WOLF
 253. Dendrology.—Prerequisite: one year of botany. 3 s.h.
 PROFESSOR BEAL

RELATED COURSES IN OTHER DEPARTMENTS

These related courses may be counted toward a major in botany.

- Forestry 257. Design of Forestry Experiments and Analysis of Data.—
 5 s.h. PROFESSOR SCHUMACHER

- Zoology 341. Historical and Philosophical Zoology.—2 s.h.
 PROFESSOR HARGITT

CHEMISTRY

PROFESSOR GROSS, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—219 CHEMISTRY
 BUILDING; PROFESSORS BIGELOW, LONDON, VOSBURGH, AND WILSON;
 ASSOCIATE PROFESSORS HAUSER, HILL, HOBBS, AND SAYLOR;
 ASSISTANT PROFESSORS BRADSHAW AND BROWN

FOR SENIORS AND GRADUATES

- 215-216. Advanced Inorganic Chemistry.—Prerequisites: Chemistry 70 and
 151-152. Chemistry 261-262, Physics 59-60 or 213-214, and ability to read
 German are desirable. 6 s.h.
 ASSOCIATE PROFESSOR HILL; PROFESSOR VOSBURGH

233-234. Instrumental Analysis.—Prerequisites: Chemistry 70 and 261-262; the latter may be taken concurrently. 4 s.h.

ASSOCIATE PROFESSOR HOBBS; PROFESSOR VOSBURGH;
AND ASSOCIATE PROFESSOR SAYLOR

236. Theory of Analytical Chemistry.—Prerequisites: Chemistry 70 and 261-262. 1 s.h.

PROFESSOR VOSBURGH

241. Physiological Chemistry.—Prerequisites: Chemistry 70 and 151-152. Course 261-262 is desirable though not required. 4 s.h.

PROFESSOR WILSON

242. Metabolism.—4 s.h.

PROFESSOR WILSON

253-254. Advanced Organic Chemistry.—Prerequisites: Chemistry 151-152 or equivalent and a reading knowledge of German. 6 or 8 s.h.

PROFESSOR BIGELOW, ASSOCIATE PROFESSOR HAUSER,
AND ASSISTANT PROFESSOR BROWN

261-262. Physical Chemistry.—Prerequisites: Chemistry 70, 151-152, Physics 1-2 or equivalent, and Mathematics 51-52. 6 s.h.

PROFESSOR GROSS; ASSOCIATE PROFESSORS HOBBS AND SAYLOR

265-266. Chemical Physics. Statistical Theory, Principles and Applications.—8 s.h.

PROFESSOR LONDON

267-268. Chemical Physics. Theoretical Aspects of Atomic and Molecular Structure.—8 s.h.

PROFESSOR LONDON

271. Introduction to Research.—1 s.h.

PROFESSORS BIGELOW, GROSS, AND VOSBURGH

273-274. Seminar.—2 s.h.

PROFESSORS BIGELOW, GROSS, AND VOSBURGH; ASSOCIATE PROFESSORS
HAUSER, HILL, HOBBS, AND SAYLOR; ASSISTANT PROFESSORS
BRADSHER AND BROWN

275-276. Research.—3 or 6 s.h.

PROFESSORS BIGELOW, GROSS, LONDON, AND VOSBURGH; ASSOCIATE
PROFESSORS HAUSER, HILL, HOBBS, AND SAYLOR; ASSISTANT
PROFESSORS BRADSHER AND BROWN

FOR GRADUATES

303. Thermodynamics.—3 s.h.

PROFESSOR LONDON

304. Chemical Thermodynamics.—3 s.h.

PROFESSORS LONDON AND VOSBURGH; ASSOCIATE PROFESSORS
HILL AND SAYLOR

351-352. Advanced Synthetic Organic Chemistry.—2 s.h.

PROFESSOR BIGELOW AND ASSOCIATE PROFESSOR HAUSER

363-364. Advanced Physical Chemistry.—Prerequisites: Chemistry 261-262 or its equivalent and calculus. 6 s.h.

PROFESSORS GROSS AND VOSBURGH; ASSOCIATE PROFESSORS
HILL, HOBBS, AND SAYLOR

RELATED COURSES IN OTHER DEPARTMENTS

BIOCHEMISTRY

M241. General Biochemistry.—Prerequisites: general chemistry, organic chemistry, elementary physical and analytical chemistry, and at least one year of college biology. February-June, 1945. 6 s.h.

DRS. PERLZWEIG AND TAYLOR, AND STAFF

M242. Biochemical Preparations.—Prerequisite: Biochemistry M241. 2 s.h.

DR. TAYLOR AND STAFF

M243-244. Physical Chemical and Colloid Chemical Principles of Biochemistry. DR. NEURATH

M341. Pathological Chemistry.—Prerequisites: Biochemistry M241 and Physiology M261-2. DRs. PERLZWEIG, TAYLOR, AND M. L. C. BERNHEIM

M343. Immunochemistry.—2 s.h. DRs. MARTIN AND NEURATH

M363-364. Advanced Seminar in Nutrition.—Prerequisites: Biochemistry M241 and Physiology M261 or equivalents. 4 s.h. DR. DANN

ECONOMICS

PROFESSOR HOOVER, CHAIRMAN—103 ADMINISTRATION BUILDING; PROFESSOR SPENGLER, DIRECTOR OF GRADUATE STUDIES—105 RELIGION; PROFESSORS BLACK, DE VYVER, RATCHFORD, AND VON BECKERATH; ASSOCIATE PROFESSORS LESTER, SMITH, AND WELFLING; ASSISTANT PROFESSOR SPRINGER

FOR SENIORS AND GRADUATES

215. Economic Systems.—3 s.h. PROFESSOR HOOVER

216. Economic Functions of the State.—Prerequisite: Economics 215 or its equivalent. 3 s.h. PROFESSOR HOOVER

217. Population Problems and Resources.—3 s.h. PROFESSOR SPENGLER

218. Business Cycles.—3 s.h. ASSOCIATE PROFESSOR LESTER

230. Public Debts in the United States.—3 s.h. PROFESSOR RATCHFORD

231. The Economic History of Modern Europe.—3 s.h. ASSOCIATE PROFESSOR SMITH

233. State and Local Finance.—3 s.h. PROFESSOR RATCHFORD

234. Federal Finance.—3 s.h. PROFESSOR RATCHFORD

237-238. Statistical Methods.—Prerequisite: Economics 138 or consent of the instructor. 6 s.h. ASSOCIATE PROFESSOR SMITH

241-242. Value and Distribution.—6 s.h. PROFESSOR SPENGLER

245. Problems of Modern Industrialism.—3 s.h. PROFESSOR VON BECKERATH

256. Labor Legislation.—3 s.h. PROFESSOR DE VYVER

260. Social Insurance.—3 s.h. PROFESSOR DE VYVER

265. International Trade and Finance.—3 s.h. PROFESSOR VON BECKERATH AND ASSOCIATE PROFESSOR LESTER

268. Competitive versus Monopolistic Enterprise.—3 s.h. PROFESSOR VON BECKERATH

275-276. Advanced Industrial Accounting and Management.—5 s.h. PROFESSOR BLACK

FOR GRADUATES

311-312. History of Political Economy.—6 s.h. PROFESSOR SPENGLER

313-314. Seminar in Economic Theory.—Prerequisite: Economics 241-242 or its equivalent. 6 s.h. PROFESSOR HOOVER

318. General Seminar in Economics. STAFF

RELATED COURSES IN OTHER DEPARTMENTS

Attention is called to the following courses in related departments:

Forestry 279. Economics of Forestry.—3 s.h. PROFESSOR WACKERMAN

History 219-220. The History of the European Proletariat.—6 s.h.

[Not offered in 1945-46]

PROFESSOR CARROLL

Political Science 207. American Constitutional Law and Theory.—3 s.h.

PROFESSOR WILSON

EDUCATION

PROFESSOR HOLTON, CHAIRMAN—2A WEST DUKE BUILDING; PROFESSOR BROWNELL,

DIRECTOR OF GRADUATE STUDIES—1C WEST DUKE BUILDING; PROFESSORS

CARR, CHILDS, AND PROCTOR; ASSOCIATE PROFESSOR SCATES;

ASSISTANT PROFESSOR EASLEY; VISITING ASSISTANT

PROFESSOR VAN ALSTYNE

ELEMENTARY EDUCATION

FOR SENIORS AND GRADUATES

207. Technique of Teaching.—3 s.h.

PROFESSOR CARR

[Not offered in 1945-46]

212. Psychology of the Elementary School Subjects.—3 s.h.

PROFESSOR CARR

222. The Curriculum and Materials of the Elementary Grades.—3 s.h.

PROFESSOR CARR

232. Elementary School Supervision.—3 s.h.

PROFESSOR CARR

FOR GRADUATES

305. The Nature, Function, and Reorganization of the Curriculum.—3 s.h.

PROFESSOR CARR

EXPERIMENTAL EDUCATION AND EDUCATIONAL PSYCHOLOGY

FOR SENIORS AND GRADUATES

208A. Mental Tests and Applications.—Prerequisite: course 258 or six semester hours of other work in educational psychology or psychology. 3 s.h.

ASSISTANT PROFESSOR VAN ALSTYNE

208B. Practicum.—2 s.h.

ASSISTANT PROFESSOR VAN ALSTYNE

209. Statistical Methods Applied to Education.—3 s.h.

ASSOCIATE PROFESSOR SCATES

216. Psychological Principles of Secondary Education.—3 s.h.

PROFESSOR CHILDS

218. Educational Implications of Genetic Psychology.—Prerequisite: six semester hours of psychology or educational psychology. 3 s.h.

[Not offered in 1945-46]

PROFESSOR BROWNELL

219. Experimental Education.—3 s.h.

PROFESSOR BROWNELL

227. The Psychology of Learning: Problems.—3 s.h.

[Not offered in 1945-46]

ASSISTANT PROFESSOR EASLEY

228. The Psychology of Learning: Theoretical and Experimental.—Prerequisite: course 227 or its equivalent. 3 s.h.

[Not offered in 1945-46]

ASSISTANT PROFESSOR EASLEY

237. Investigations in Reading.—3 s.h.

PROFESSOR CARR

247. Investigations in Arithmetic.—3 s.h.

PROFESSOR BROWNELL

258. Educational Measurements.—Prerequisite: twelve semester hours in the Department, including a course in educational psychology. 3 s.h.

ASSOCIATE PROFESSOR SCATES

FOR GRADUATES

307-308. Seminar in Educational Psychology.—4 s.h.
[Not offered in 1945-46] PROFESSOR BROWNELL

309-310. Research in Educational Psychology.—3 to 6 s.h.
PROFESSOR BROWNELL

317. The Psychological Principles of Education.—3 s.h.
PROFESSOR BROWNELL

320. Advanced Educational Statistics.—3 s.h.
ASSOCIATE PROFESSOR SCATES

338. Research in Reading.—3 s.h.
[Not offered in 1945-46] PROFESSOR CARR

339. Research Course in Educational Tests.—Prerequisite: the equivalent of course 258. 3 s.h.
[Not offered in 1945-46] ASSOCIATE PROFESSOR SCATES

348. Research in Arithmetic.—3 s.h.
[Not offered in 1945-46] PROFESSOR BROWNELL

HISTORY AND PHILOSOPHY OF EDUCATION

FOR SENIORS AND GRADUATES

200. Introduction to the Philosophy of Education.—3 s.h.
PROFESSOR HOLTON

214. History of Education in the United States.—3 s.h.
[Not offered in 1945-46] PROFESSOR PROCTOR

244. Studies in the Historical Development of Public School Administration.—3 s.h.
[Not offered in 1945-46] PROFESSOR HOLTON

254. History of Secondary Education in American Education.—3 s.h.
[Not offered in 1945-46] PROFESSOR HOLTON

264. Recent Movements in American Education.—3 s.h.
[Not offered in 1945-46] PROFESSOR HOLTON

294. Comparative Education: Recent Movements in European Educational Systems.—3 s.h.
[Not offered in 1945-46] PROFESSOR CARR

304. The School as an Institution.—3 s.h. PROFESSOR HOLTON

PUBLIC SCHOOL ADMINISTRATION

FOR SENIORS AND GRADUATES

203. Principles of School Administration.—Prerequisite: Education 103 and 58, or six semester hours of equivalent work in education. 3 s.h.
PROFESSOR PROCTOR

213. Problems in the Organization and Administration of the Elementary School.—3 s.h.
[Not offered in 1945-46] PROFESSOR PROCTOR

233. Administrative Pupil-Accounting.—3 s.h. PROFESSOR PROCTOR

234. Secondary School Organization and Administration.—3 s.h.
PROFESSOR PROCTOR

253. Legal Phases of School Administration.—3 s.h.
[Not offered in 1945-46] PROFESSOR HOLTON

FOR GRADUATES

323. Public School Finance.—3 s.h. PROFESSOR PROCTOR
 343. State and County School Administration.—3 s.h. PROFESSOR PROCTOR
 363. City School Administration.—3 s.h. PROFESSOR PROCTOR
 [Not offered in 1945-46]

SECONDARY EDUCATION AND EDUCATIONAL SOCIOLOGY

FOR SENIORS AND GRADUATES

205. Curriculum Problems in Secondary Education.—3 s.h.
 [Not offered in 1945-46] PROFESSOR CHILDS
 206. Sociological Foundations of the Secondary School Subjects.—Pre-
 requisites: six semester hours in education, including course 105. 3 s.h.
 PROFESSOR CHILDS
 215. Educational and Vocational Guidance.—Prerequisite: twelve semester
 hours in the Department, including course 105 or course 206. 3 s.h.
 [Not offered in 1945-46] PROFESSOR CHILDS
 225. The Teaching of History and the Social Studies.—3 s.h.
 [Not offered in 1945-46] ASSOCIATE PROFESSOR MANCHESTER
 246. The Teaching of Mathematics.—3 s.h. PROFESSOR RANKIN
 [Not offered unless justified by enrollment]
 266. The Teaching of High-School French.—3 s.h. PROFESSOR WEBB

METHODOLOGY OF RESEARCH

FOR GRADUATES

300. Methods of Educational Research: Seminar.—3 s.h.
 MEMBERS OF THE DEPARTMENT

RELATED COURSES IN OTHER DEPARTMENTS

FOR MAJORS IN EDUCATIONAL PSYCHOLOGY, ELEMENTARY EDUCATION,
AND SECONDARY EDUCATION

- Psychology 206. Social Psychology.—3 s.h.
 ASSOCIATE PROFESSOR ADAMS AND DR. KOCH
 Psychology 207. Psychology of Memory, Thinking, Perceiving.—Second
 semester. 3 s.h. PROFESSOR ZENER
 Psychology 209. Experimental Methods in Human Psychology.—4 s.h.
 PROFESSOR ZENER
 Psychology 212. Physiological Psychology.—3 s.h.
 [Not offered in 1945-46] ASSISTANT PROFESSOR KEMP
 Psychology 215. Developmental Psychology.—3 s.h.
 [Not offered in 1945-46] ASSOCIATE PROFESSOR ADAMS
 Psychology 226. Contemporary Schools of Psychology.—3 s.h.
 PROFESSOR ZENER
 Psychology 306. Seminar in Child Psychology.—2 or 3 s.h.
 [Not offered in 1945-46] ASSOCIATE PROFESSOR ADAMS
 Psychology 309. Theory of Learning.—3 s.h. ASSOCIATE PROFESSOR ADAMS
 [Not offered in 1945-46]
 Sociology 212. Child Welfare.—3 s.h. PROFESSOR JENSEN

Sociology 213. Constructive Social Policies.—2 s.h. PROFESSOR JENSEN
[Not offered in 1945-46]

Sociology 319. Principles of Sociology.—3 s.h. PROFESSOR JENSEN
[Not offered in 1945-46]

Sociology 320. History of Sociological Theory.—3 s.h. PROFESSOR JENSEN

FOR MAJORS IN PUBLIC SCHOOL ADMINISTRATION

Economics 230. Public Debts in the United States.—3 s.h.
PROFESSOR RATCHFORD

Political Science 209. State and Local Government in the United States.—
3 s.h. PROFESSOR RANKIN

Political Science 291. Municipal Government.—3 s.h. PROFESSOR RANKIN

Sociology 213. Constructive Social Policies.—2 s.h. PROFESSOR JENSEN
[Not offered in 1945-46]

FOR MAJORS IN HISTORY AND PHILOSOPHY OF EDUCATION

History 209-210. Constitutional History of the United States, 1763-1860.—
6 s.h. ASSISTANT PROFESSOR STILL
[Not offered in 1945-46]

Philosophy 205. The Philosophy of History.—3 s.h. PROFESSOR WIDGERY
[Not offered in 1945-46]

Philosophy 208. Political Philosophy.—3 s.h.
[Not offered in 1945-46] ASSOCIATE PROFESSOR MORGAN

Philosophy 223. Contemporary Philosophy.—Second semester. 3 s.h.
PROFESSOR WIDGERY

Religion 393. Religious Thought in Colonial America.—3 s.h.
PROFESSOR SMITH

Religion 394. Religious Thought in Modern America.—3 s.h.
PROFESSOR SMITH

Sociology 319. Principles of Sociology.—3 s.h. PROFESSOR JENSEN
[Not offered in 1945-46]

Sociology 320. History of Sociological Theory.—3 s.h. PROFESSOR JENSEN

ENGLISH

PROFESSOR WHITE, CHAIRMAN—2G5 WEST DUKE BUILDING; PROFESSOR HUBBELL,
DIRECTOR OF GRADUATE STUDIES—105 EAST DUKE BUILDING; PROFESSORS
BAUM, GILBERT, GOHDES, AND IRVING; ASSOCIATE PROFESSOR
WARD; ASSISTANT PROFESSORS LEARY AND TALBERT

201-202. Anglo-Saxon.—6 s.h. PROFESSOR BAUM
[Not offered in 1945-46]

203-204. Chaucer.—6 s.h. PROFESSOR BAUM

205-206. Middle English.—6 s.h. PROFESSOR BAUM

207-208. English Literature, 1400-1550.—6 s.h. PROFESSOR BAUM
[Not offered in 1945-46]

209. English Literature Other than Drama, 1550-1625.—3 s.h.
PROFESSOR GILBERT

210. English Literature Other than Drama, 1625-1700.—3 s.h.
ASSOCIATE PROFESSOR WARD

- 215-216. Elizabethan Drama.—6 s.h.
 PROFESSOR GILBERT; ASSISTANT PROFESSOR TALBERT
- 219-220. The Eighteenth Century.—6 s.h. PROFESSOR IRVING
- 221-222. English Literature of the Early Nineteenth Century.—6 s.h.
 PROFESSOR WHITE
- 223-224. English Literature of the Later Nineteenth Century.—6 s.h.
 [In 1945-46 only 224 is offered] PROFESSOR BAUM
227. Literary Criticism.—3 s.h.
 [The course may be offered in either semester.] PROFESSOR GILBERT
- 229-230. American Literature, 1800-1870.—6 s.h. PROFESSOR HUBBELL
- 231-232. Special Studies in American Literature.—6 s.h.
 PROFESSOR GOHDES
- 233-234. American Literature since 1870.—6 s.h. PROFESSOR GOHDES
237. English Drama, 1642-1800.—3 s.h. ASSOCIATE PROFESSOR WARD
- 247-248. American Literature of the Colonial Period.—6 s.h.
 [Not offered in 1945-46] ASSISTANT PROFESSOR LEARY
269. Southern Literature to 1865.—3 s.h. PROFESSOR HUBBELL
 [Not offered in 1945-46]

FOR GRADUATES

349. Seminar Courses.—3 s.h.
- (a) Shakespeare. ASSISTANT PROFESSOR TALBERT
- (b) Milton, or Spenser. PROFESSOR GILBERT
- (c) Dryden. ASSOCIATE PROFESSOR WARD
- (d) Pope, or Johnson. PROFESSOR IRVING
- (e) Shelley, or Wordsworth, or Byron. PROFESSOR WHITE
- (f) Arnold, or Tennyson. PROFESSOR BAUM
- (g) Poe, or Hawthorne. PROFESSOR HUBBELL
- (h) Emerson, or Whitman. PROFESSOR GOHDES

In 1945-46 four of these courses will be given, two in the autumn semester and two in the spring.

- 359-360. Research courses.—3 or 6 s.h.
- (a) The Early Language and Literature. PROFESSOR BAUM
- (b) Elizabethan Literature. PROFESSOR GILBERT
- (c) The Seventeenth Century. PROFESSOR GILBERT AND
 ASSOCIATE PROFESSOR WARD
- (d) The Eighteenth Century. PROFESSOR IRVING
- (e) The Early Nineteenth Century. PROFESSOR WHITE
- (f) The Later Nineteenth Century. PROFESSOR BAUM
- (g) American Literature to 1870. PROFESSOR HUBBELL
- (h) American Literature since 1870. PROFESSOR GOHDES

400. Special Studies.—Hours and credits to be arranged.

MEMBERS OF THE GRADUATE STAFF

RELATED COURSES IN OTHER DEPARTMENTS

The attention of students in English is directed to the following courses:
 German 301-302. Gothic-Middle High German.—6 s.h. PROFESSOR VOLLMER
 Greek 201-202. Greek Tragedy.—6 s.h. DR. ROSE
 History 221-222. The Age of the Renaissance.—6 s.h.

ASSOCIATE PROFESSOR NELSON

History 223-224. Medieval Institutions and Culture.—6 s.h.

ASSOCIATE PROFESSOR QUINN

History 337. Social and Economic Life of the Old South.—4 s.h.

[Not offered in 1945-46]

PROFESSOR SYDNOR

Philosophy 201-202. The Philosophy of Art.—6 s.h.

PROFESSOR GILBERT

[Not offered in 1945-46]

Philosophy 213-214. History of Aesthetics.—6 s.h.

PROFESSOR GILBERT

Psychology 202. Psychology of Aesthetics.—3 s.h.

PROFESSOR LUNDHOLM

Romance Languages 219. Old French.—3 s.h.

PROFESSOR COWPER

FORESTRY

PROFESSOR KORSTIAN, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—FEW
 QUADRANGLE, HOUSE GG-010; PROFESSORS BEAL, HARRAR, MAUGHAN,
 SCHUMACHER, WACKERMAN, AND WOLF; ASSOCIATE PRO-
 FESSORS COILE, KRAMER, AND THOMSON

FOR SENIORS AND GRADUATES

224. Forest Pathology.—Prerequisites: Botany 1 and 2, and Forestry 253,
 or equivalents. 4 s.h. PROFESSOR WOLF

231. Forest Entomology.—3 s.h.

PROFESSOR BEAL

251. Sampling Methods in Forestry.—Prerequisite: Forestry S151. 2 s.h.

PROFESSOR SCHUMACHER

252. Forest Mensuration.—Prerequisite: Forestry 251. 2 s.h.

PROFESSOR SCHUMACHER

253. Dendrology.—Prerequisite: one year of botany. 3 s.h.

PROFESSOR BEAL

257. Design of Forestry Experiments and Analysis of Data.—5 s.h.

PROFESSOR SCHUMACHER

259. Wood Anatomy and Properties.—Prerequisites: one year of botany
 and Chemistry 1 and 2, or equivalents. 3 s.h. PROFESSOR HARRAR

261. Forest Soils.—Prerequisites: Chemistry 1 and 2, and Physics 1, or
 equivalents; physical geology and analytical chemistry are also desirable.
 3 s.h.

[Not offered in 1945-46]

ASSOCIATE PROFESSOR COILE

264. Silvics.—Desirable prerequisites: plant physiology, plant ecology, and
 Forestry 253 and 261, or equivalents. 3 s.h. PROFESSOR KORSTIAN

276. Forest Policy.—2 s.h.

[Not offered in 1945-46]

ASSOCIATE PROFESSOR THOMSON

279. Economics of Forestry.—Prerequisite: at least one course in the prin-
 ciples of economics. 3 s.h. PROFESSOR WACKERMAN

FOR GRADUATES

323-324. **Advanced Forest Pathology.**—Prerequisites: plant physiology and forest pathology. Credits to be arranged. PROFESSOR WOLF

351-352. **Advanced Physiology of Forest Trees.**—Prerequisites: plant physiology and plant ecology or silvics. Credits to be arranged.

PROFESSOR KRAMER

354. **Forest Soil Fertility.**—Prerequisites: Forestry 251 and 261, and plant physiology, or equivalents; bacteriology and analytical and organic chemistry are desirable. 3 s.h.

ASSOCIATE PROFESSOR COILE

[Not offered in 1945-46]

356. **Economic Forces in Forestry.**—Prerequisites: Forestry 279 and 282, or equivalents; courses in economic theory are desirable. 2 s.h.

[Not offered in 1945-46]

ASSOCIATE PROFESSOR THOMSON

357-358. **Research in Forestry.**—Credits to be arranged.

a. **Silvics.**—Prerequisites: Forestry 253, 261, and 264, or equivalents.

PROFESSOR KORSTIAN

b. **Forest Soils.**—Prerequisite: Forestry 261 or equivalent.

[Not offered in 1945-46]

ASSOCIATE PROFESSOR COILE

d. **Forest Management.**—Prerequisite: Forestry 281 or equivalent.

PROFESSOR MAUGHAN

e. **Forest Economics.**—Prerequisite: Forestry 279 or equivalent.

PROFESSOR WACKERMAN

f. **Wood Anatomy and Properties.**—Prerequisites: Forestry 259 and 260, or equivalents.

PROFESSOR HARRAR

g. **Forest Mensuration.**—Prerequisites: Forestry S151, 251, and 252, or equivalents.

PROFESSOR SCHUMACHER

h. **Forest Entomology.**—Prerequisite: Forestry 231 or equivalent.

PROFESSOR BEAL

GERMANIC LANGUAGES AND LITERATURE

PROFESSOR VOLLMER, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—205 PAGE AUDITORIUM; PROFESSOR KRUMMEL

201-202. **Goethe.**—6 s.h.

PROFESSOR KRUMMEL

203-204. **Leibnitz to Romanticism.**—6 s.h.

PROFESSOR VOLLMER

205-206. **Middle High German.**—6 s.h.

PROFESSOR VOLLMER

207-208. **German Romanticism.**—6 s.h.

PROFESSOR VOLLMER

209-210. **Kleist, Grillparzer, and Hebbel.**—6 s.h.

PROFESSOR KRUMMEL

211-212. **Heinrich Heine.**—6 s.h.

PROFESSOR VOLLMER

213-214. **Literature of the Empire, 1871-1914.**—6 s.h.

PROFESSOR VOLLMER

FOR GRADUATES ONLY

301-302. **Gothic—Middle High German.**—6 s.h.

PROFESSOR VOLLMER

303-304. **German Seminar.**—Credit to be arranged.

PROFESSORS VOLLMER AND KRUMMEL

RELATED COURSES IN OTHER DEPARTMENTS

History 217-218. **Europe since 1870.**—6 s.h.

PROFESSOR CARROLL

History 221-222. **The Age of the Renaissance.**—6 s.h.

ASSOCIATE PROFESSOR NELSON

History 223-224. Medieval Institutions and Culture.—6 s.h.

ASSISTANT PROFESSOR QUINN

History 225-226. The Age of the Reformation.—6 s.h.

[Not offered in 1945-46]

ASSOCIATE PROFESSOR NELSON

History 217-218. Europe since 1870.—6 s.h.

PROFESSOR CARROLL

Philosophy 201-202. The Philosophy of Art.—6 s.h.

[Not offered in 1945-46]

PROFESSOR GILBERT

Philosophy 213-214. History of Aesthetics.—6 s.h.

PROFESSOR GILBERT

Philosophy 223. Contemporary Philosophy.—3 s.h.

PROFESSOR WIDGERY

Philosophy 244. Nietzsche and the Nineteenth Century.—3 s.h.

[Not offered in 1945-46]

ASSOCIATE PROFESSOR MORGAN

Sociology 320. History of Sociological Theory.—3 s.h. PROFESSOR JENSEN

HISTORY

PROFESSOR LAPRADE, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—2B WEST

DUKE BUILDING; PROFESSORS CARROLL, CLYDE, LANNING, AND SYDNOR;

ASSOCIATE PROFESSORS MANCHESTER, NELSON, AND WOODY;

ASSISTANT PROFESSORS QUINN AND STILL

AMERICAN HISTORY

FOR SENIORS AND GRADUATES

203-204. The United States, 1850-1900.—6 s.h.

209-210. Constitutional History of the United States, 1763-1860.—Prereq-

uisites: courses 91 and 92. 6 s.h.

ASSISTANT PROFESSOR STILL

[Not offered in 1945-46]

215-216. Foreign Policy and Diplomacy of the United States.—6 s.h.

[Not offered in 1945-46]

PROFESSOR CLYDE

230. The Portuguese Empire and the Rise of Brazil.—3 s.h.

[Not offered in 1945-46]

ASSOCIATE PROFESSOR MANCHESTER

231. The Hispanic Colonies of the New World.—3 s.h.

[Not offered in 1945-46]

PROFESSOR LANNING

232. The Hispanic American Republics of the New World.—3 s.h.

[Not offered in 1945-46]

PROFESSOR LANNING

233. The Cultural and Institutional History of Colonial Hispanic Amer-
ica.—3 s.h. PROFESSOR LANNING

234. Political and Social Problems in the Hispanic American Republics.—
3 s.h. PROFESSOR LANNING

263-264. American Colonial History and the Revolution, 1606-1783.—6 s.h.

[Not offered in 1945-46]

ASSOCIATE PROFESSOR WOODY

265-266. The Westward Movement in the United States.—6 s.h.

[Not offered in 1945-46]

ASSISTANT PROFESSOR STILL

FOR GRADUATES

315. Seminar in Southern History.—2 s.h.

PROFESSOR SYDNOR

321. Seminar in the History of Spain and the Spanish-American Colonies.
—2 s.h. PROFESSOR LANNING

336. The South in Federal Politics, 1789-1860.—4 s.h. PROFESSOR SYDNOR

337. Social and Economic Life of the Old South.—4 s.h.

[Not offered in 1945-46]

PROFESSOR SYDNOR

EUROPE AND THE FAR EAST

FOR SENIORS AND GRADUATES

- 217-218. Europe since 1870.—6 s.h. PROFESSOR CARROLL
- 219-220. The History of the European Proletariat.—6 s.h.
[Not offered in 1945-46] PROFESSOR CARROLL
- 221-222. The Age of the Renaissance.—6 s.h. ASSOCIATE PROFESSOR NELSON
- 223-224. Medieval Institutions and Culture.—6 s.h. ASSISTANT PROFESSOR QUINN
- 225-226. The Age of the Reformation.—6 s.h.
[Not offered in 1945-46] ASSOCIATE PROFESSOR NELSON
- 241-242. The Foreign Relations and Diplomacy of the United States in the Pacific and the Far East.—6 s.h. PROFESSOR CLYDE

FOR GRADUATES

305. Seminar in the History of England and the British Empire.—2 s.h. PROFESSOR LAPRADE
317. Seminar in Recent European History.—2 s.h. PROFESSOR CARROLL
325. British Nationality and Public Opinion.—4 s.h. PROFESSOR LAPRADE
327. Modern Phases of the English Constitution.—4 s.h. PROFESSOR LAPRADE
343. Seminar in the History of American Foreign Relations and the Far East.—2 s.h. PROFESSOR CLYDE

HISTORIOGRAPHY AND THE TEACHING OF HISTORY

FOR SENIORS AND GRADUATES

211. The Teaching of History and the Social Studies.—3 s.h.
[Not offered in 1945-46] ASSOCIATE PROFESSOR MANCHESTER

FOR GRADUATES

320. Historiography.—4 s.h. ASSOCIATE PROFESSOR NELSON
[Not offered in 1945-46]
329. Historiography of the South.—4 s.h. ASSOCIATE PROFESSOR WOODY
[Not offered in 1945-46]

RELATED COURSES IN OTHER DEPARTMENTS

- Economics 215. Economic Systems.—3 s.h. PROFESSOR HOOVER
- Economics 216. Economic Functions of the State.—3 s.h. PROFESSOR HOOVER
- Economics 231. Economic History of Modern Europe.—3 s.h. ASSISTANT PROFESSOR SMITH
- Economics 311-312. History of Political Economy.—6 s.h. PROFESSOR SPENGLER
- Political Science 223. Political Thought to the Seventeenth Century.—3 s.h. PROFESSOR WILSON
- Political Science 224. Modern Political Theory.—3 s.h. PROFESSOR WILSON
- Religion 309. History of the Ancient Near East.—3 s.h. PROFESSOR STINESPRING

- Religion 393. Religious Thought in Colonial America.—3 s.h.
PROFESSOR SMITH
- Religion 394. Religious Thought in Modern America.—3 s.h.
PROFESSOR SMITH
- Sociology 237. Indians of North America.—3 s.h.
[Not offered in 1945-46] ASSOCIATE PROFESSOR GILLIN
- Sociology 238. Anthropological Backgrounds of Latin America.—3 s.h.
ASSOCIATE PROFESSOR GILLIN
- Sociology 239. Acculturation and Cultural Synthesis.—3 s.h.
ASSOCIATE PROFESSOR GILLIN
- Sociology 240. The Peoples of Africa.—3 s.h.
[Not offered in 1945-46] ASSOCIATE PROFESSOR GILLIN
- Sociology 320. History of Sociological Theory.—3 s.h. PROFESSOR JENSEN

MATHEMATICS

PROFESSOR GERGEN, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—03 GRAY
BUILDING; PROFESSORS CARLITZ, ELLIOTT, RANKIN, AND THOMAS;
ASSOCIATE PROFESSORS DRESSEL AND ROBERTS

FOR SENIORS AND GRADUATES

201. History of Mathematics.—Prerequisite: differential calculus. 3 s.h.
PROFESSOR RANKIN
204. Teaching of Mathematics.—3 s.h. PROFESSOR RANKIN
225. Theory of Equations.—Prerequisite: integral calculus. 3 s.h.
- 227-228. Theory of Numbers.—Prerequisite: integral calculus. 6 s.h.
PROFESSOR CARLITZ
- 229-230. Algebraic Numbers.—Prerequisite: Mathematics 225. 6 s.h.
PROFESSOR CARLITZ
- 235-236. Modern Algebra.—Prerequisite: integral calculus. 6 s.h.
PROFESSOR CARLITZ
250. Modern Geometry.—3 s.h.
[Not offered in 1945-46] PROFESSOR THOMAS
- 255-256. Projective Geometry.—Prerequisite: integral calculus. 6 s.h.
[Not offered in 1945-46] PROFESSOR THOMAS
- 271-272. Introductory Topology.—Prerequisite: integral calculus. 6 s.h.
[Not offered in 1945-46] ASSOCIATE PROFESSOR ROBERTS
275. Probability.—Prerequisite: integral calculus. 3 s.h.
ASSOCIATE PROFESSOR DRESSEL
281. Elementary Potential Theory.—Prerequisite: integral calculus. 3 s.h.
PROFESSOR GERGEN
282. Differential Equations of Mathematical Physics.—Prerequisite: integral calculus. 3 s.h.
ASSOCIATE PROFESSOR DRESSEL
283. Fourier Series and Spherical Harmonics.—Prerequisite: integral calculus. 3 s.h.
ASSOCIATE PROFESSOR DRESSEL
284. Vector Analysis.—Prerequisite: integral calculus. 3 s.h.
[Not offered in 1945-46] PROFESSOR THOMAS
287. Mathematical Logic.—3 s.h. PROFESSOR CARLITZ
288. Foundations of Mathematics.—3 s.h. PROFESSOR CARLITZ

- 291-292. Theory of Functions.—Prerequisite: second course in calculus.
6 s.h. PROFESSOR GERGEN

FOR GRADUATES

- 301-302. Algebraic Geometry.—Prerequisite: Mathematics 255-256. 6 s.h.
[Not offered in 1945-46] PROFESSOR THOMAS
- 325-326. Real Variable.—Prerequisite: Mathematics 291-292. 6 s.h.
PROFESSOR GERGEN
- 331-332. Complex Variable.—Prerequisite: Mathematics 291-292. 6 s.h.
- 333-334. Analytic Theory of Numbers.—Prerequisite: Mathematics 291-292. 6 s.h.
PROFESSOR CARLITZ
- 337-338. Existence Theorems.—Prerequisite: Mathematics 291-292. 6 s.h.
[Not offered in 1945-46] PROFESSOR THOMAS
- 341-342. Integral Equations.—Prerequisites: differential equations and second course in calculus. 6 s.h.
PROFESSOR ELLIOTT
- 343-344. Ordinary Differential Equations.—Prerequisite: Mathematics 291-292. 6 s.h.
[Not offered in 1945-46]
- 353-354. Trigonometric Series.—Prerequisite: Mathematics 325-326. 6 s.h.
PROFESSOR GERGEN
- 371-372. Dimension Theory.—Prerequisite: Mathematics 271-272. 6 s.h.
[Not offered in 1945-46] ASSOCIATE PROFESSOR ROBERTS
- 373-374. Continuous Transformations.—Prerequisite: Mathematics 271-272. 6 s.h.
ASSOCIATE PROFESSOR ROBERTS
382. Potential Theory.—Prerequisites: Mathematics 281 and 325-326. 3 s.h.
PROFESSOR GERGEN

PHILOSOPHY

PROFESSOR WIDGERY, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—303 DIVINITY SCHOOL; PROFESSORS GILBERT AND SMITH; ASSOCIATE PROFESSORS LEONARD AND MORGAN; ASSISTANT PROFESSOR MCLARTY

FOR SENIORS AND GRADUATES

Courses normally given in alternate years marked with a dagger are not offered in 1945-46. Those marked with an asterisk are offered in 1945-46.

- †201-202. The Philosophy of Art.—6 s.h. PROFESSOR GILBERT
203. The Philosophy of Conduct.—3 s.h. ASSOCIATE PROFESSOR MORGAN
- †205. The Philosophy of History.—3 s.h. PROFESSOR WIDGERY
- †208. Political Philosophy.—3 s.h. ASSOCIATE PROFESSOR MORGAN
- *209-210. The Philosophy of Religion.—6 s.h. PROFESSOR WIDGERY
- †211. Philosophy of Civilization.—3 s.h. ASSOCIATE PROFESSOR MORGAN
- *213-214. History of Aesthetics.—6 s.h. PROFESSOR GILBERT
215. Christian Ethics I.—3 s.h. PROFESSOR SMITH
216. Christian Ethics II.—3 s.h. PROFESSOR SMITH
- †217. The Philosophy of Aristotle.—Prerequisite: 105. 3 s.h.
ASSISTANT PROFESSOR MCLARTY
- *223. Contemporary Philosophy.—3 s.h. PROFESSOR WIDGERY

- †226. The History of Ethics.—3 s.h. ASSOCIATE PROFESSOR MORGAN
 †231-232. Philosophy of Science.—6 s.h. ASSOCIATE PROFESSOR LEONARD
 †236. Oriental Philosophy I. Chinese Philosophy.—3 s.h.
 †238. Oriental Philosophy II. Indian Philosophy.—3 s.h. PROFESSOR WIDGERY
 *241. Logic.—3 s.h. ASSOCIATE PROFESSOR LEONARD
 *242. Scientific Methodology.—3 s.h. ASSOCIATE PROFESSOR LEONARD
 †244. Nietzsche and the Nineteenth Century.—3 s.h. ASSOCIATE PROFESSOR MORGAN
 †248. Philosophy of Values.—2 s.h.

FOR GRADUATES

- 301-302. Seminar in Philosophy.—4 s.h. PROFESSOR WIDGERY
 †305. Seminar: Spinoza.—3 s.h. PROFESSOR GILBERT
 †307. Seminar: Kant.—2 s.h. ASSOCIATE PROFESSOR MORGAN
 †308. Seminar: Hegel.—3 s.h. PROFESSOR GILBERT
 †310. Seminar: Logical Positivism and Its Relation to Contemporary
 Movements in Philosophy and Science.—2 s.h. ASSOCIATE PROFESSOR LEONARD
 †315. Seminar in Leibnitz.—2 s.h. PROFESSOR SMITH
 319. Religious Thought in Colonial America.—3 s.h. PROFESSOR SMITH
 320. Religious Thought in Modern America.—3 s.h. PROFESSOR SMITH
 323. Seminar in American Religious Thought.—2 s.h. PROFESSOR SMITH
 †325. Seminar: Locke, Berkeley, Hume.—2 s.h. ASSOCIATE PROFESSOR LEONARD
 326. Seminar: Christian Ethics.—Religion 398. 2 s.h. PROFESSOR SMITH

RELATED COURSES IN OTHER DEPARTMENTS

- 331-332. Seminar in Special Fields of Philosophy.—2 s.h. each semester.
 (a) Logic and Philosophy of Science. ASSOCIATE PROFESSOR LEONARD
 (b) Ethics and Political Philosophy. ASSOCIATE PROFESSOR MORGAN
 (c) Aesthetics. PROFESSOR GILBERT
 (d) Philosophy of Religion and of History. PROFESSOR WIDGERY
 Education 200. Introduction to the Philosophy of Education.—3 s.h. PROFESSOR HOLTON
 Greek 209-210. Plato.—6 s.h. ASSISTANT PROFESSOR WAY
 History 221-222. The Age of the Renaissance.—6 s.h. ASSOCIATE PROFESSOR NELSON
 Mathematics 287. Mathematical Logic.—3 s.h. PROFESSOR CARLITZ
 Mathematics 288. Foundations of Mathematics.—3 s.h. PROFESSOR CARLITZ
 Physics 213-214. Contemporary Physics.—6 s.h. ASSOCIATE PROFESSOR CONSTANT
 Political Science 223. Political Thought to the Seventeenth Century.—
 3 s.h. PROFESSOR WILSON
 Political Science 224. Modern Political Theory.—3 s.h. PROFESSOR WILSON

Psychology 228. Psychology of Belief.—3 s.h. PROFESSOR LUNDHOLM
[Not offered in 1945-46]

Religion 221. Platonism and Christianity.—3 s.h.

Religion 222. Theology and Philosophy in the Nineteenth Century.—3 s.h.

Sociology 320. History of Sociological Theory.—3 s.h. PROFESSOR JENSEN

Zoology 341. Historical and Philosophical Zoology.—2 s.h.

PROFESSOR HARGITT

PHYSICS

PROFESSOR NIELSEN, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—111
PHYSICS BUILDING; PROFESSORS HATLEY, NORDHEIM, AND SPONER;
ASSOCIATE PROFESSOR CONSTANT; ASSISTANT PROFESSOR BONNER

FOR SENIORS AND GRADUATES

213-214. Contemporary Physics.—6 s.h. ASSOCIATE PROFESSOR CONSTANT

215-216. Atomic Physics Laboratory.—2-4 s.h.

PROFESSORS NIELSEN AND SPONER

217-218. Advanced General Physics Laboratory.—2 s.h.

PROFESSORS NIELSEN AND SPONER

219. Electron Tubes and Their Application.—4 s.h. PROFESSOR NIELSEN

221-222. Introduction to Theoretical Physics.—8 s.h.

ASSOCIATE PROFESSOR CONSTANT

FOR GRADUATES

303. Thermodynamics.—3 s.h. PROFESSORS GROSS AND SPONER

305. Kinetic Theory of Matter.—3 s.h.

PROFESSOR SPONER

307. Advanced Dynamics.—3 s.h.

PROFESSOR NORDHEIM

[Not offered in 1945-46]

308. Theory of Electricity and Magnetism.—3 s.h.

PROFESSOR NORDHEIM

[Not offered in 1945-46]

315-316. Principles of Quantum Theory.—6 s.h.

PROFESSOR NORDHEIM

[Not offered in 1945-46]

319. Electrodynamics.—3 s.h.

PROFESSOR NORDHEIM

[Not offered in 1945-46]

320. Theory of Electrons.—3 s.h.

PROFESSOR NORDHEIM

[Not offered in 1945-46]

323. Theory of Atomic Spectra.—3 s.h.

PROFESSOR SPONER

[Not offered in 1945-46]

324. Theory of Molecular Spectra.—3 s.h.

PROFESSOR SPONER

[Not offered in 1945-46]

340. Structure of Matter.—3 s.h.

PROFESSOR SPONER

[Not offered in 1945-46]

341. Advanced Topics in Quantum Theory.—Prerequisite: Physics 315-316. 3 s.h. PROFESSOR NORDHEIM

[Not offered in 1945-46]

343-344. Radioactivity and Nuclear Structure.—6 s.h. PROFESSOR NIELSEN

[Not offered in 1945-46]

351-352. Seminar.—2 s.h.

STAFF

353-354. Thesis Seminar.—6 s.h.

STAFF

POLITICAL SCIENCE

PROFESSOR WILSON, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—311
 LIBRARY; PROFESSORS COLE, RANKIN AND VON BECKERATH; ASSOCIATE
 PROFESSORS GIBSON AND SHIPMAN; ASSISTANT PROFESSORS
 HALLOWELL, LINEBARGER, AND WALTER

FOR SENIORS AND GRADUATES

207. American Constitutional Law and Theory.—3 s.h.

PROFESSOR WILSON

209. State and Local Government in the United States.—3 s.h.

PROFESSOR RANKIN

211. Political Institutions of the Far East.—3 s.h.

ASSISTANT PROFESSOR LINEBARGER

[Not offered in 1945-46]

212. International Politics of the Far East.—3 s.h.

[Not offered in 1945-46]

ASSISTANT PROFESSOR LINEBARGER

223. Political Thought to the Seventeenth Century.—3 s.h.

PROFESSOR WILSON; ASSISTANT PROFESSOR HALLOWELL

224. Modern Political Theory.—3 s.h.

PROFESSOR WILSON; ASSISTANT PROFESSOR HALLOWELL

225. Comparative Government.—3 s.h.

PROFESSOR COLE; ASSISTANT PROFESSOR HALLOWELL

226. Comparative Government.—3 s.h.

PROFESSOR COLE; ASSISTANT PROFESSOR HALLOWELL

227-228. International Law.—6 s.h.

PROFESSOR WILSON

229. Recent and Contemporary Political Theory.—3 s.h.

PROFESSOR COLE

230. American Political Institutions.—3 s.h.

PROFESSOR RANKIN

241-242. The Administrative Process.—6 s.h.

ASSISTANT PROFESSOR WALTER

244. Administrative Law.—3 s.h.

ASSISTANT PROFESSOR WALTER

252. Spanish-American Constitutionalism.—3 s.h.

[Not offered in 1945-46]

ASSOCIATE PROFESSOR GIBSON

271. Sociopolitics and Capitalism.—3 s.h.

PROFESSOR VON BECKERATH

291. Municipal Government.—3 s.h.

PROFESSOR RANKIN

292. Municipal Administration.—3 s.h.

PROFESSOR RANKIN

FOR GRADUATES

310. Seminar in State Government.—3 s.h.

PROFESSOR RANKIN

[Not offered in 1945-46]

311. Seminar in Far Eastern Politics.—3 s.h.

[Not offered in 1945-46]

ASSISTANT PROFESSOR LINEBARGER

325. Seminar in Comparative Government.—3 s.h.

PROFESSOR COLE

[Not offered in 1945-46]

328. Seminar in International Law.—3 s.h.

PROFESSOR WILSON

341. Seminar in Public Administration.—3 s.h.

ASSISTANT PROFESSOR WALTER

RELATED COURSES IN OTHER DEPARTMENTS

- Economics 216. Economic Functions of the State.—3 s.h.
 PROFESSOR HOOVER
- Economics 233. State and Local Finance.—3 s.h. PROFESSOR RATCHFORD
- Economics 234. Federal Finance.—3 s.h. PROFESSOR RATCHFORD
- Economics 237-238. Statistical Methods.—6 s.h.
 ASSOCIATE PROFESSOR SMITH
- Economics 265. International Trade and Finance.—3 s.h.
 PROFESSOR VON BECKERATH AND ASSOCIATE
 PROFESSOR LESTER
- History 215-216. Foreign Policy and Diplomacy of the United States.—
 6 s.h. PROFESSOR CLYDE
 [Not offered in 1945-46]
- History 217-218. Europe since 1870.—6 s.h. PROFESSOR CARROLL
- History 234. Political and Social Problems in the Hispanic American
 Republics.—3 s.h. PROFESSOR LANNING
- Philosophy 208. Political Philosophy.—3 s.h. ASSOCIATE PROFESSOR MORGAN
 [Not offered in 1945-46]

PSYCHOLOGY

PROFESSOR LUNDHOLM, CHAIRMAN—201 SCIENCE BUILDING; PROFESSOR ZENER,
 DIRECTOR OF GRADUATE STUDIES—217A SCIENCE BUILDING; PROFESSOR RHINE;
 ASSOCIATE PROFESSOR ADAMS AND VISITING ASSOCIATE PROFESSOR
 CATTELL; ASSISTANT PROFESSOR KEMP; DR. KOCH

FOR SENIORS AND GRADUATES

202. Psychology of Aesthetics.—3 s.h. PROFESSOR LUNDHOLM
204. Motivation and Learning.—3 s.h. PROFESSOR ZENER
206. Social Psychology.—3 s.h.
 [Fall semester only] ASSOCIATE PROFESSOR ADAMS AND DR. KOCH
207. Psychology of Memory, Thinking, Perceiving.—3 s.h.
 PROFESSOR ZENER
209. Experimental Methods in Human Psychology.—4 s.s.
 [Not offered in 1945-46] PROFESSOR ZENER
212. Physiological Psychology.—3 s.h. ASSISTANT PROFESSOR KEMP
 [Not offered in 1945-46]
215. Developmental Psychology.—3 s.h. ASSOCIATE PROFESSOR ADAMS
 [Not offered in 1945-46]
221. The Experimental and Statistical Study of Personality.—3 s.h.
 [Not offered in 1945-46] VISITING ASSOCIATE PROFESSOR CATTELL
223. Abnormal Psychology.—3 s.h. PROFESSOR LUNDHOLM
226. Psychology: Historical and Theoretical.—3 s.h. PROFESSOR ZENER
 [Not offered in 1945-46]
228. Psychology of Belief.—3 s.h. PROFESSOR LUNDHOLM
 [Not offered in 1945-46]

FOR GRADUATES

302. Seminar.—3 s.h. PROFESSOR LUNDHOLM
 [Not offered in 1945-46]

303-304. Research.—2 or 3 s.h.

PROFESSORS LUNDHOLM, RHINE, AND ZENER; ASSOCIATE PROFESSOR
ADAMS; AND VISITING ASSOCIATE PROFESSOR CATTELL

306. Seminar in Child Psychology.—2 or 3 s.h.

[Not offered in 1945-46] ASSOCIATE PROFESSOR ADAMS

307. Seminar in Psychology of Personality.—3 s.h. PROFESSOR RHINE

[Not offered in 1945-46]

309. Theory of Learning.—3 s.h.

[Not offered in 1945-46] ASSOCIATE PROFESSOR ADAMS

310. Seminar: Selected Problems in the Dynamics of Behavior.—3 s.h.

PROFESSOR ZENER

313. Seminar in Parapsychology.—3 s.h.

[Not offered in 1945-46] PROFESSOR RHINE

RELATED COURSES IN OTHER DEPARTMENTS

Education 208A. Mental Tests and Applications.—3 s.h.

ASSISTANT PROFESSOR VAN ALSTYNE

Education 208B. Practicum.—2 s.h. ASSISTANT PROFESSOR VAN ALSTYNE

Education 209. Statistical Methods Applied to Education.—3 s.h.

ASSOCIATE PROFESSOR SCATES

Education 218. Educational Implications of Genetic Psychology.—3 s.h.

[Not offered in 1945-46] PROFESSOR BROWNELL

Education 227. The Psychology of Learning: Problems.—3 s.h.

[Not offered in 1945-46] ASSISTANT PROFESSOR EASLEY

Education 228. The Psychology of Learning: Theoretical and Experi-
mental.—3 s.h. ASSISTANT PROFESSOR EASLEY

[Not offered in 1945-46]

Education 258. Educational Measurements.—3 s.h.

ASSOCIATE PROFESSOR SCATES

Education 317. Advanced Educational Psychology.—3 s.h.

PROFESSOR BROWNELL

Education 320. Advanced Educational Statistics.—3 s.h.

ASSOCIATE PROFESSOR SCATES

Philosophy 223. Contemporary Philosophy.—3 s.h. PROFESSOR WIDGERY

Philosophy 231-232. Philosophy of Science.—6 s.h.

[Not offered in 1945-46] ASSOCIATE PROFESSOR LEONARD

Philosophy 241. Logic.—3 s.h.

ASSOCIATE PROFESSOR LEONARD

Philosophy 242. Scientific Methodology.—3 s.h.

ASSOCIATE PROFESSOR LEONARD

Sociology 205. Social Pathology.—3 s.h.

PROFESSOR JENSEN

Sociology 206. Criminology.—3 s.h.

PROFESSOR JENSEN

Sociology 212. Child Welfare.—3 s.h.

PROFESSOR JENSEN

[Not offered in 1945-46]

Sociology 217. Race and Culture.—3 s.h. ASSOCIATE PROFESSOR THOMPSON

Sociology 239. Acculturation and Cultural Synthesis.—3 s.h.

ASSOCIATE PROFESSOR GILLIN

Sociology 317. Seminar in Anthropology.—1 to 3 s.h.

ASSOCIATE PROFESSOR GILLIN

- Sociology 350. Seminar in Sociology.—1 to 3 s.h. PROFESSOR JENSEN
 Zoology 229. Endocrinology.—4 s.h. ASSISTANT PROFESSOR JEFFERS
 Zoology 321. General Physiology.—4 s.h.
 Zoology 324. Advanced Physiology.—4 s.h.
 Zoology 341. Historical and Philosophical Zoology.—2 s.h. PROFESSOR HARGITT
 Zoology 351-352. Zoological Journal Club.—2 s.h. STAFF
 Zoology 355-356(e). Seminar: Ecology, Parasitology, and Behavior. PROFESSOR PEARSE

RELIGION

PROFESSOR SMITH, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—310 LIBRARY;
 PROFESSORS BRANSCOMB, CLARK, PETRY, RUSSELL AND STINESPRING;
 ASSOCIATE PROFESSOR CUSHMAN

FIELD I. BIBLICAL STUDIES

- 201-202. First Hebrew.—6 s.h.
 205-206. Arabic.—6 s.h.
 [Not offered in 1945-46] PROFESSOR STINESPRING
 207-208. Second Hebrew.—6 s.h. PROFESSOR STINESPRING
 301. Old Testament Theology.—3 s.h. PROFESSOR RUSSELL
 304. Aramaic.—3 s.h. PROFESSOR STINESPRING
 305. Third Hebrew.—3 s.h.
 [Not offered in 1945-46] PROFESSOR STINESPRING
 309. History of the Ancient Near East.—3 s.h. PROFESSOR STINESPRING
 310. Old Testament Prophecy.—3 s.h. PROFESSOR STINESPRING
 217. The New Testament in Greek.—3 s.h. PROFESSOR CLARK
 218. Galatians and I Corinthians.—3 s.h. PROFESSOR CLARK
 220. I Peter and the Gospel of John.—3 s.h. PROFESSOR CLARK
 [Not offered in 1945-46]
 311. The Life and Teachings of Jesus.—Prerequisite: New Testament
 213-214. 3 s.h. PROFESSOR BRANSCOMB
 312. New Testament Theology.—Prerequisite: New Testament 213-214.
 3 s.h. PROFESSOR RUSSELL
 313. The Apostolic Fathers.—3 s.h. PROFESSOR CLARK
 314. Early Christian Apologists.—3 s.h. PROFESSOR BRANSCOMB
 315. Judaism at the Beginning of the Christian Era.—3 s.h.
 316. Hellenistic Religions at the Beginning of the Christian Era.—3 s.h. PROFESSOR CLARK
 318. Text of New Testament.—3 s.h. PROFESSOR CLARK
 [Not offered in 1945-46]
 320. Rabbinic Literature.—3 s.h.

RELATED COURSES IN OTHER DEPARTMENTS

- Greek 257. Social and Cultural History of the Hellenistic World from
 Alexander to Augustus.—3 s.h. PROFESSOR ROGERS
 Latin 258. Social and Cultural History of the Graeco-Roman World.—
 3 s.h. PROFESSOR ROGERS

FIELD II. STUDIES IN CHURCH HISTORY

328. The Church in Europe since 1800.—Prerequisite: Church History 233-234. 3 s.h. PROFESSOR PETRY

331. The Social Message of the Early and Medieval Church.—Prerequisite: Church History 233-234. 3 s.h. PROFESSOR PETRY

332. The Medieval Church.—Prerequisite: Church History 233-234. 3 s.h. PROFESSOR PETRY

333. A History of Christian Renunciation in the Middle Ages.—Prerequisite: Church History 233-234. 3 s.h. PROFESSOR PETRY

334. Church Reformers and Christian Unity.—Prerequisite: Church History 233-234. 3 s.h. PROFESSOR PETRY

RELATED COURSES IN OTHER DEPARTMENTS

History 221-222. The Age of the Renaissance.—6 s.h. ASSOCIATE PROFESSOR NELSON

History 223-224. Medieval Institutions and Culture.—6 s.h. ASSISTANT PROFESSOR QUINN

History 225-226. The Age of the Reformation.—6 s.h. ASSOCIATE PROFESSOR NELSON

FIELD III. STUDIES IN CHRISTIAN THOUGHT

221. Platonism and Christianity.—Prerequisite: six semester hours in philosophy or its equivalent. 3 s.h. ASSOCIATE PROFESSOR CUSHMAN
[Not offered in 1945-46]

222. Theology and Philosophy in the Nineteenth Century.—3 s.h. ASSOCIATE PROFESSOR CUSHMAN

291. Christian Ethics I.—3 s.h. PROFESSOR SMITH

292. Christian Ethics II.—3 s.h. PROFESSOR SMITH

321. Philosophical Theology I.—3 s.h. ASSOCIATE PROFESSOR CUSHMAN

322. Philosophical Theology II.—3 s.h. ASSOCIATE PROFESSOR CUSHMAN

323. The Christian Conception of the Church.—Prerequisite: Christian Doctrine 321. 3 s.h.
[Not offered in 1945-46]

329. Seminar in Historical Theology.—2 s.h.

366. Seminar in Philosophy of Religious Education.—2 s.h. PROFESSOR SMITH
[Not offered in 1945-46]

393. Religious Thought in Colonial America.—3 s.h. PROFESSOR SMITH

394. Religious Thought in Modern America.—3 s.h. PROFESSOR SMITH

396. Modern American Christology.—2 s.h. PROFESSOR SMITH

397. Seminar in American Religious Thought.—2 s.h. PROFESSOR SMITH

398. Seminar in Christian Ethics.—2 s.h. PROFESSOR SMITH
[Not offered in 1945-46]

399. Seminar in Theology and Ethics.—2 s.h. PROFESSOR SMITH
[Not offered in 1945-46]

ROMANCE LANGUAGES

PROFESSOR WEBB, CHAIRMAN—107 GRAY BUILDING; PROFESSOR JORDAN, DIRECTOR
OF GRADUATE STUDIES—106 GRAY BUILDING; PROFESSORS COWPER AND
LUNDEBERG; ASSOCIATE PROFESSOR WALTON; ASSISTANT
PROFESSORS DAVIS AND REID

FRENCH

FOR SENIORS AND GRADUATES

- | | |
|---|----------------------------|
| 213. French Classicism.—3 s.h. | ASSOCIATE PROFESSOR WALTON |
| 214. French Classicism.—3 s.h. | ASSOCIATE PROFESSOR WALTON |
| 215-216. The Modern French Novel.—6 s.h. | PROFESSOR JORDAN |
| 217. French Phonetics.—3 s.h. | PROFESSOR WEBB |
| 218. Materials and Methods.—3 s.h. | PROFESSOR WEBB |
| 219. Old French.—3 s.h. | PROFESSOR COWPER |
| 220. Old French.—3 s.h. | PROFESSOR COWPER |
| 227. French Poetry since Théophile Gautier.—3 s.h. | ASSOCIATE PROFESSOR WALTON |
| 232. Rousseau and the Beginnings of Romanticism.—3 s.h. | PROFESSOR COWPER |
| 233. Main Currents of Modern French Thought.—3 s.h. | PROFESSOR WEBB |

FOR GRADUATES

- | | |
|---|----------------------------|
| 317. History of the French Language.—3 s.h. | PROFESSOR COWPER |
| 323-324. Realism and Naturalism.—6 s.h. | PROFESSOR JORDAN |
| 325-326. French Literature in the Sixteenth Century.—6 s.h. | ASSOCIATE PROFESSOR WALTON |
| 328. Anatole France.—3 s.h. | ASSOCIATE PROFESSOR WALTON |
| 331. Diderot and the Encyclopédie.—3 s.h. | PROFESSOR COWPER |
| 333-334. Contemporary French Literature.—6 s.h. | PROFESSOR JORDAN |
| 350. Nineteenth-Century French Criticism.—3 s.h. | PROFESSOR JORDAN |

Of the courses listed above, the following will be offered during the first semester of the year 1945-46: 218, and four courses from the group 213, 215, 219, 233, 323, 325, 333. During the second semester, 217, and four courses from the group 214, 216, 220, 227, 232, 324, 326, 334, 350.

SPANISH

FOR SENIORS AND GRADUATES

- | | |
|---|---------------------------|
| 253. Spanish Phonetics.—3 s.h. | PROFESSOR LUNDEBERG |
| 255-256. Studies in Spanish-American Literature.—6 s.h.
[Not offered in 1945-46] | ASSISTANT PROFESSOR REID |
| 257-258. Old Spanish Language and Literature.—6 s.h. | ASSISTANT PROFESSOR DAVIS |

260. Advanced Syntax and Composition.—3 s.h. PROFESSOR LUNDEBERG
- 261-262. The Modern Spanish Novel.—6 s.h.
[Not offered in 1945-46] PROFESSOR LUNDEBERG
265. Golden Age Literature: Cervantes.—3 s.h. PROFESSOR LUNDEBERG
266. Golden Age Literature: Golden Age Drama.—3 s.h.
PROFESSOR LUNDEBERG

SOCIOLOGY AND ANTHROPOLOGY

PROFESSOR JENSEN, DIRECTOR OF GRADUATE STUDIES—203 CARR BUILDING;
PROFESSOR HART; ASSOCIATE PROFESSORS GILLIN AND THOMPSON

205. Social Pathology.—Prerequisite: course 91-92, 101, or 131-132. 3 s.h.
PROFESSOR JENSEN
206. Criminology.—Prerequisite: course 91-92, 101, or 131-132. 3 s.h.
PROFESSOR JENSEN
212. Child Welfare.—Prerequisite: course 91-92, 101, or 131-132. 3 s.h.
[Offered in Summer Session, 1945] PROFESSOR JENSEN
213. Constructive Social Policies.—2 s.h. PROFESSOR JENSEN
[Not offered in 1945-46]
215. Rural Sociology.—Prerequisite: course 91-92, 101, or 131-132. 3 s.h.
ASSOCIATE PROFESSOR THOMPSON
216. Urban Sociology.—Prerequisite: course 91-92, 101, or 131-132. 3 s.h.
ASSOCIATE PROFESSOR THOMPSON
217. Race and Culture.—Prerequisite: course 91-92, 101, or 131-132. 3 s.h.
ASSOCIATE PROFESSOR THOMPSON
218. Community and Society.—Prerequisite: course 91-92, 101, or 131-132.
3 s.h. ASSOCIATE PROFESSOR THOMPSON
225. Statistical Methods in Sociology.—Prerequisite: course 91-92, 101, or
131-132. 3 s.h. PROFESSOR HART
227. Emigration and Immigration.—Prerequisite: course 91-92, 101, or 131-
132. 3 s.h. PROFESSOR JENSEN
[Not offered in 1945-46]
236. Social Ethics.—3 s.h. PROFESSOR HART
237. Indians of North America.—Prerequisite: course 131. 3 s.h.
[Not offered in 1945-46] ASSOCIATE PROFESSOR GILLIN
238. Anthropological Backgrounds of Latin America.—Prerequisite: course
131, or equivalent. 3 s.h. ASSOCIATE PROFESSOR GILLIN
239. Acculturation and Cultural Synthesis.—Prerequisite: course 131, or
equivalent. 3 s.h. ASSOCIATE PROFESSOR GILLIN
240. The Peoples of Africa.—Prerequisite: course 131. 3 s.h.
[Not offered in 1945-46] ASSOCIATE PROFESSOR GILLIN
252. Education and Social Control.—Prerequisite: course 91-92, 101, or
131-132. 2 s.h.
[Not offered in 1945-46]
281. Public Opinion.—3 s.h. PROFESSOR JENSEN
[Not offered in 1945-46]

FOR GRADUATES

317. Seminar in Anthropology.—1 to 3 s.h. ASSOCIATE PROFESSOR GILLIN
319. Principles of Sociology.—3 s.h.
[Not offered in 1945-46] PROFESSOR JENSEN
320. History of Sociological Theory.—3 s.h. PROFESSOR JENSEN
322. Methods of Social Research.—3 s.h. PROFESSOR JENSEN
326. Operational Sociology.—Prerequisite: one of the following: Sociology 225, or Economics 237-238, or Education 209, or Mathematics 74 or 275, or some other acceptable course in statistics. 3 s.h. PROFESSOR HART
330. Seminar.—1 s.h.
PROFESSORS ELLWOOD, HART, AND JENSEN; ASSOCIATE
PROFESSORS GILLIN AND THOMPSON
340. Seminar.—3 s.h. ASSOCIATE PROFESSOR THOMPSON
350. Seminar in Applied Sociology.—1 to 3 s.h. PROFESSOR JENSEN
351. Seminar in Medical Sociology.—2 s.h.
[Not offered in 1945-46]
352. Seminar in Family Law.—2 s.h. PROFESSOR BRADWAY
360. Seminar in Social Statistics.—1 to 3 s.h. PROFESSOR HART

RELATED COURSES IN OTHER DEPARTMENTS

- Economics 215. Economic Systems.—3 s.h. PROFESSOR HOOVER
- Economics 216. Economic Functions of the State.—3 s.h.
PROFESSOR HOOVER
- Economics 217. Population Problems and Resources.—3 s.h.
PROFESSOR SPENGLER
- Philosophy 205. Philosophy of History.—3 s.h. PROFESSOR WIDGERY
[Not offered in 1945-46]
- Political Science 223. Political Thought to the Seventeenth Century.—
3 s.h. PROFESSOR WILSON
- Political Science 224. Modern Political Theory.—3 s.h. PROFESSOR WILSON
- Psychology 206. Social Psychology.—3 s.h.
ASSOCIATE PROFESSOR ADAMS AND DR. KOCH

ZOOLOGY

PROFESSOR GRAY, CHAIRMAN—218 BIOLOGY BUILDING; PROFESSOR HARGITT,
DIRECTOR OF GRADUATE STUDIES—326 BIOLOGY BUILDING; PROFESSORS
HALL AND PEARSE; ASSISTANT PROFESSORS BOOKHOUT,
JEFFERS, AND JOHNSON

FOR SENIORS AND GRADUATES

204. Advanced Parasitology.—Prerequisite: Zoology 161. 4 s.h.
PROFESSOR PEARSE
222. Entomology.—Prerequisite: one year of zoology. 4 s.h.
PROFESSOR GRAY
224. Vertebrate Zoology.—Prerequisite: Zoology 53. 4 s.h.
PROFESSOR GRAY
229. Endocrinology.—Prerequisites: Zoology, 53, 92. 4 s.h.
ASSISTANT PROFESSOR JEFFERS

274. Invertebrate Zoology.—Prerequisites: Zoology 1 and 2. 4 s.h.
ASSISTANT PROFESSOR BOOKHOUT
276. Protozoology.—Prerequisites: Zoology 1 and 2. 4 s.h.
ASSISTANT PROFESSOR BOOKHOUT

FOR GRADUATES

303. Ecology.—4 s.h. PROFESSOR PEARSE
306. Advanced Ecology.—Prerequisite: Zoology 303. 4 s.h.
PROFESSOR PEARSE
307. Foundations of Zoology.—2 s.h. PROFESSOR PEARSE
321. General Physiology.—4 s.h.
324. Advanced Physiology.—Prerequisite: Zoology 151 or 321. 4 s.h.
327. Experimental Embryology.—Prerequisite: Zoology 92, 151 or 321.
4 s.h.
341. Historical and Philosophical Zoology.—2 s.h. PROFESSOR HARGITT
343. Cytology.—Prerequisites: Zoology 53, 92, 156, or equivalents. 4 s.h.
PROFESSOR HARGITT
- 351-352. Zoological Journal Club.—2 s.h. STAFF
- 353-354. Research.
- (a) Embryology; Endocrinology.
- (b) Comparative and General Physiology.
- (c) Histology; Cytology. PROFESSOR HARGITT
- (d) Invertebrate Zoology. ASSISTANT PROFESSOR BOOKHOUT
- (e) Ecology; Parasitology; Behavior. PROFESSOR PEARSE
- (f) Vertebrate Zoology; Entomology. PROFESSOR GRAY
- Hours and credits to be arranged.
- 355-356. Seminar.—Hours and credits to be arranged.
- (a) Embryology; Endocrinology.
- (b) Comparative and General Physiology.
- (c) Histology; Cytology. PROFESSOR HARGITT
- (d) Invertebrate Zoology. ASSISTANT PROFESSOR BOOKHOUT
- (e) Ecology; Parasitology; Behavior. PROFESSOR PEARSE
- (f) Vertebrate Zoology; Entomology. PROFESSOR GRAY

COURSES IN THE MEDICAL SCHOOL OPEN TO
GRADUATE STUDENTS

PROFESSORS EADIE, MARKEE, PERLZWEIG, AND D. T. SMITH; VISITING PROFESSOR
DAWSON; ASSOCIATE PROFESSORS CONANT, F. BERNHEIM, DANN, HETHERING-
TON, HOLLINSHEAD, MCCREA, MARTIN, NEURATH, AND TAYLOR;
ASSISTANT PROFESSORS M. L. C. BERNHEIM, EVERETT,
HANDLER, AND PEELE

ANATOMY

M201. Gross Human Anatomy.—Hours and credits (maximum 8 s.h.) by
arrangement. Prerequisites: adequate training in comparative anatomy and
embryology. DR. MARKEE AND STAFF

M202. Microscopic Anatomy.—Hours and credits (maximum 3 s.h.) by arrangement. Prerequisite: adequate training in histology or cytology.

DR. MARKEE AND STAFF

M203. Anatomy of the Nervous System.—Hours and credits (maximum 4 s.h.) by arrangement. Prerequisite: Anatomy M201.

DR. MARKEE

BACTERIOLOGY AND IMMUNOLOGY

M221. Bacteriology and Immunology.—Prerequisites: courses in general zoology, general botany, histology and comparative anatomy, general and organic chemistry. 4 s.h.

DR. D. T. SMITH AND STAFF

M323. Advanced Bacteriology and Immunology.—8 s.h.

DR. D. T. SMITH AND STAFF

BIOCHEMISTRY

M241. General Biochemistry.—Prerequisites: general chemistry, organic chemistry, general botany, elementary physical and analytical chemistry, and at least one year of college biology. 8 s.h.

DR. PERLZWEIG AND STAFF

M242. Biochemical Preparations.—Prerequisite: Biochemistry M241. 2 s.h.

DR. TAYLOR AND STAFF

M243-244. Physical Chemical and Colloid Chemical Principles of Biochemistry.

DR. NEURATH

M341. Pathological Chemistry.—Prerequisites: Biochemistry M241 and Physiology M261-2.

DRS. PERLZWEIG, TAYLOR, AND M. L. C. BERNHEIM

M343. Immunochemistry.—2 s.h.

DRS. MARTIN AND NEURATH

PHYSIOLOGY, PHARMACOLOGY, AND NUTRITION

M261-2. Human Physiology and Pharmacology.—Prerequisites: Anatomy M201 and Biochemistry M241 (or equivalents) and at least one year of college physics. Credits depending on work taken. (Maximum 8 s.h.)

DR. EADIE AND STAFF

M263. Physiology of Digestion, Metabolism, and Nutrition.—Prerequisite: Biochemistry M241. 2 s.h.

DRS. DANN, EADIE, AND F. BERNHEIM

M363-4. Advanced Seminar in Nutrition.—Prerequisites: Biochemistry M241 and Physiology M251 or equivalents. 4 s.h.

DR. DANN

THE DIVINITY SCHOOL

BENNETT HARVIE BRANSCOMB, A.B., M.A., (Oxon.), Ph.D., Litt.D.
Dean

1944-1945
ANNOUNCEMENTS FOR 1945-1946

THE DIVINITY SCHOOL OF DUKE UNIVERSITY

THE DIVINITY SCHOOL

The Indenture signed by Mr. James B. Duke, which established the University, mentioned first among its objects the training of ministers of the Gospel. The Divinity School was, accordingly, the first of the graduate professional schools to be organized. Its work began with the year 1926-27, the formal opening exercises being held on November 9, 1926.

The Reverend Doctor Edmund Davison Soper was the first dean of the Divinity School. He was succeeded in 1928 by the Reverend Doctor Elbert Russell, and the latter in turn in 1941 by the Reverend Doctor Paul Neff Garber. In 1945 Dean Garber was elected to the episcopacy of the Methodist Church, and Dr. Harvie Branscomb assumed the duties of the dean's office.

THE PURPOSE OF THE DIVINITY SCHOOL

The primary purpose of the Divinity School is to provide training for individuals planning to enter the Christian ministry. This includes not only prospective ministers in local churches, but also those preparing themselves to be missionaries at home and abroad, directors of religious education, teachers of religion, and social workers. Vital to all of these forms of service is a full understanding of the beginnings, content, and history of the Christian faith and its special pertinence for the spiritual needs of the modern world. Studies of a broad and thorough character directed toward such an understanding constitute the center of the curriculum of the Divinity School and are regarded as the basic training for all prospective Christian workers. Specific training in the skills required of local ministers and of leaders in the work of religious education are also provided. As funds become available for the purpose and as needs appear, additional training in specialized skills and areas of knowledge will be added to the curriculum.

Though bound by ties of history and obligation to the Methodist Church, the Divinity School is multi-denominational in its interests and ecumenical in its outlook. Its faculty is limited to no one denomination, but draws upon the resources of them all. Students of the several denominations are admitted on the same basis. The Divinity School conceives its task to be one of broad service to the Church of Christ in all of its forms.

THE RELATION OF THE DIVINITY SCHOOL TO DUKE UNIVERSITY

The Divinity School is an integral unit of the University and shares fully in its activities, privileges and responsibilities. The Sunday services in the University Chapel give the Divinity School students an opportunity to hear each year a number of the leading preachers of the country. The University Library, conveniently located next to the Divinity School Building, makes easily accessible a rich collection of approximately three

quarters of a million volumes. Selected courses in the Graduate School of Arts and Sciences and in the professional schools are open to Divinity School students without payment of additional fees. The general cultural and recreational resources of the University are available to them on the same basis as other students.

LIBRARY RESOURCES

The Divinity School has its own special library collection housed in the Divinity School Building. This collection, which contains materials dealing with the subject of religion, numbers approximately thirty-five thousand volumes. It is rich in complete files of the more important religious journals and periodicals, in source materials, particularly for the study of American church history, missions and the history of religion, and in facsimiles of the more important manuscripts of the New Testament. One of the outstanding possessions of the Library is a magnificent Greek manuscript of the thirteenth or fourteenth century containing the entire text of the New Testament.

The general library of the University is connected by a corridor with the Divinity School Building. It contains over seven hundred thousand volumes and receives the current issues of several thousand periodicals. The general Library contains also a catalogue of the library of the University of North Carolina located at Chapel Hill, twelve miles away, and a system of exchange operates between the two libraries so that books may be secured from that library also within a few hours.

ENDOWED SCHOLARSHIP FUNDS

Certain special scholarship funds have been established, the income of which is available for students wishing to secure training in preparation for the Christian ministry. Mr. P. Huber Hanes of Winston-Salem, North Carolina, an alumnus of Duke University of the Class of 1900 and a member of the Board of Trustees, has established an annual scholarship yielding the sum of \$400. The scholarship bears the name of the donor.

In 1939, Mr. N. Edward Edgerton of Raleigh, North Carolina, an alumnus of Duke University of the Class of 1921, a member of the Board of Trustees of the University and a member of the Committee on the Divinity School, established the N. Edward Edgerton Fund. The award is limited to students who are candidates for the B.D. degree.

In 1942 the Alumni Association of the Divinity School established a scholarship fund in honor of Elbert Russell, Dean Emeritus of the Divinity School and for a number of years Professor of Biblical Theology.

These scholarships are all awarded on the basis of service performed in a local church, thus providing for the student experience as well as financial aid.

In addition to these endowed scholarships there are available for students preparing for the Methodist ministry approximately sixty work scholarships provided by the Duke Endowment for aiding rural Methodist churches in North Carolina. At the meeting of the Southeastern Juris-

dictional Conference of the Methodist Church fifteen similar work scholarships were appropriated.

NAVAL THEOLOGICAL TRAINING PROGRAM

The training program of the United States Navy provides for the training of a limited number of pre-theological and theological students for eventual service as chaplains in the United States Naval Reserve. The Divinity School is cooperating with this program. Candidates for commission as chaplains are assigned to the School for study. A full summer term of fifteen weeks is provided in order that they may complete their theological training in two calendar years. Applicants for admission to this program must be accepted by their respective denominations and by the United States Navy as well as by the Divinity School.

COURSES OF STUDY OFFERED BY THE DIVINITY SCHOOL

The Divinity School offers at present two courses of study. The basic course is that which leads to the degree of Bachelor of Divinity. This is a three-year course and is recommended to all those preparing themselves for the work of the regular pastoral ministry.

Beginning with the year 1944-45 the Divinity School offered also a course of study leading to the degree of Master of Religious Education. This course is designed for individuals who wish to become directors or to take other specialized positions in the work of religious education.

COURSES OF STUDY IN RELIGION OFFERED BY THE GRADUATE SCHOOL OF ARTS AND SCIENCES

Students who desire to pursue work in religion beyond that for the Bachelor of Divinity degree should register in the Graduate School of Arts and Sciences, through which the degrees of Master of Arts and Doctor of Philosophy may be obtained. This advanced work is administered through the Department of Religion of the Graduate School and is available to qualified persons of all denominations on an equal basis. Study and research may be pursued in three fields: (1) Biblical Studies; (2) Studies in Church History; and (3) Studies in Christian Thought.

A limited number of University Scholarships and Fellowships, among which are two Gurney Harriss Kearns Fellowships of \$700 each, may be obtained by exceptionally qualified students.

FACILITIES FOR ADVANCED STUDY IN THE AMERICAN SCHOOLS OF ORIENTAL RESEARCH

The Divinity School of Duke University is one of the supporting members of the American Schools of Oriental Research. Accordingly, students in the Divinity School have the privilege of attending the American School in Jerusalem or the one in Bagdad without charge for tuition. They may also compete for the financial aids which are offered annually by the Schools. These consist of four fellowships, the stipends depending upon available funds.

COSTS, RESIDENTIAL ARRANGEMENTS, AND STUDENT AID

FEES AND COSTS

The University tuition charge of \$100 per semester is remitted to students matriculated in the Divinity School.

Fees per semester:

Matriculation Fee	\$25.00	
Library Fee	5.00	
Athletic Fee	5.00	
Hospital Fee	5.00	
Damage Fee	1.00	
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	\$41.00	\$ 41.00
Approximate cost of meals per semester		150.00
Room per semester		62.50
		<hr/>
Total per semester		\$253.50

Each student is assessed, in the last semester before a degree is conferred, a Commencement Fee of \$3.00 and a Diploma Fee of \$5.00. The latter fee is refunded if the diploma is not awarded.

LATE REGISTRATION

Students matriculating in either semester at a date later than that prescribed in the catalogue shall pay to the Treasurer of the University a penalty of \$5.00.

DINING HALL

The dining halls in the University Union have accommodations for all resident Divinity School students. The meals furnished in the Union are supervised by trained dietitians. The price of board in the University dining halls is \$1.14 per day for three meals. A la carte service can be secured in the Union Coffee Shop.

LIVING QUARTERS

Divinity School students are housed in the University dormitories along with other graduate and professional students. Application for room assignments should be addressed to the Director in the Business Division, Duke Station, Durham, N. C. The cost of a single room is \$75 per semester, of a double room \$62.50 per student per semester. A reservation fee of \$25 is required at the time a room is assigned. This reservation fee is deducted from the room charges at the time of registration. Students are urged to apply for rooms as early as possible. Delays, particularly if continued to the end of the summer, are likely to result in assignments to rooms less desirable than others and located at a distance from those occupied by other Divinity School students. Students occupying rooms in the dormitories who wish to retain their rooms for a following year must notify the Office of the Director in the Business Division by May 15.

STUDENT AID

Duke University remits its regular tuition charge to all students enrolled in the Divinity School. Scholarship aid, over and above this, is available only in the form of work scholarships. Those appointed to these scholarships agree to give ten weeks' service during the summer months to a church to which they are assigned. In return they receive their board and room for the period of their summer service and \$400. This latter sum is made available during the academic year preceding the summer work if desired. By special arrangement a student may be assigned to a church for five weeks' work with one-half the stated remuneration. The larger number, but not all, of these scholarships are limited to candidates for the Methodist ministry.

REQUIREMENTS FOR GRADUATION

REQUIREMENTS FOR ADMISSION

Candidates for admission must be graduates of colleges of recognized standing whose college record is such as to indicate their ability to carry on graduate professional studies. They will be admitted without examination on presentation of an official transcript of college and other academic credits which they may have secured. The application of students from foreign countries will be considered each on its own merits, the general principle being that a training equivalent to that of a baccalaureate degree from an accredited American college must have been secured. Women will be admitted on the same basis as men. Graduates of non-accredited colleges will be considered on their merits, but only those who give evidence of special promise will be admitted. In addition to an adequate academic preparation, applicants must satisfy the Faculty as to their Christian character and purpose. A formal application blank may be secured from the Dean of the Divinity School. This should be filled out and returned by all candidates for admission.

PRESEMINARY CURRICULUM

The Divinity School, in substantial agreement with the standards of the American Association of Theological Schools, recommends that prospective candidates for admission keep in mind the desirability of including the following in their undergraduate curriculum:

Two years' work in English literature and composition.

Two years in a foreign language.

One semester each in psychology, philosophy, and sociology (or economics).

One year in history.

An introduction to the natural sciences with adequate laboratory work (biology or one of the physical sciences).

Proficiency in public speaking.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF DIVINITY

The requirements for the degree of Bachelor of Divinity are the following:

Completion of ninety-two semester hours of course work, including the required courses listed on the following page.

Selection of a major field of study, in which fifteen semester hours of work shall be completed including the courses required of all students in that field.

Demonstration of a detailed knowledge of the contents of the narrative portions of the English Bible. An examination for this purpose is given each spring. The dates for this examination for the academic year 1945-46 will be April 16-17, 1946.

The writing of an adequate thesis.

Students who show deficiencies in English composition will be required to take special training in addition to meeting the other requirements for the degree. The course leading to the degree of Bachelor of Divinity is planned to cover three years of normal academic work. In no case will this degree be conferred on a student until he has spent at least two semesters in residence in the Divinity School. This is defined as the completion of thirty semester hours of work.

REQUIRED COURSES FOR THE DEGREE OF BACHELOR OF DIVINITY

Old Testament	
203-204. Introduction to the Old Testament	6 s.h.
New Testament	
213-214. The Beginnings of Christianity	6 s.h.
Christian Doctrine	
321. Introduction to Theology	3 s.h.
322. Introduction to Christian Theology	3 s.h.
Church History	
233. Church History to the Reformation	3 s.h.
234. History of the Evangelical Movement	3 s.h.
Homiletics	
241. Effective Speaking	2 s.h.
342. Theory and Practice of Preaching	3 s.h.
Practical Theology	
352. Church Administration	3 s.h.
Religious Education	
261. The Educational Work of the Church	3 s.h.
Psychology of Religion	
371. Psychology of Religion	3 s.h.
Philosophy of Religion and Christian Ethics	
291. Christian Ethics I	3 s.h.

History of Religion and Missions

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|------------------------------------|--------|
| 281. Living Religions of the World | 3 s.h. |
| 282. Missions | 3 s.h. |

Social Ethics

- | | |
|---------------------|--------|
| *236. Social Ethics | 3 s.h. |
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DISTRIBUTION OF REQUIRED COURSES BY YEARS

Fall Semester	Spring Semester
<i>Required in the First Year</i>	
Old Testament 203 or New Testament 213	Continuation of Biblical course begun in fall semester
Church History 233	Church History 234
History of Religion 281	Church Administration 352
	Homiletics 241
<i>Required in the Second Year</i>	
Christian Doctrine 321	Christian Doctrine 322
Religious Education 261	Missions 282
<i>Required in Either First or Second Year</i>	
Old Testament 203 and New Testament 213	Old Testament 204 and New Testament 214
Psychology of Religion 371	Homiletics 342
Christian Ethics 291	*Social Ethics 236

All required courses must be completed by the end of the second year.

THE SELECTION OF A MAJOR FIELD

Each student must select a department in which he elects to major and in which he will write his thesis. He must take fifteen semester hours in the department, including the general requirement in that department. He may also take his major in English Bible. To major in this field he must complete nine semester hours in the departments of Old and New Testament in addition to the required work in those departments. Of these nine semester hours, six must be taken in one of the two departments and three in the other. Credit for the thesis is not counted toward the completion of the major.

THESIS

The thesis, required of all students for graduation, shall be of such a character as to evidence special competence in a selected field of study and an ability to carry out and to state clearly independent investigations. The thesis shall be written in connection with the work of an advanced course in the field of the student's major interest, the particular course or courses available for this purpose being designated by the instructor in the field upon application of the student.

The thesis shall be from fifty to seventy-five pages in length. Two typewritten bound copies shall be presented to the instructor, one of which will be returned to the student after the thesis has been read and approved. The thesis, when approved, shall carry three semester hours credit over and above the credit for the course in connection with which it is written.

* Required of students who have not completed at least five semester hours of undergraduate sociology.

NORMAL SCHEDULE OF WORK

The normal schedule is fifteen semester hours per semester, except for the first year, in one semester of which the two-hour required course in speech must be added. For students carrying the responsibilities of pastoral charges the normal load is twelve semester hours per semester. No students may increase their schedules beyond these limits except for one semester of the middle year when students with superior records may add three semester hours, and for the final semester before graduating when three semester hours may be added if this is necessary in order to complete the requirements for graduation.

SPECIAL REGULATIONS

Grades of incomplete received at the end of the fall semester must be removed by the completion of the work of the course not later than March 15. Grades of incomplete received at the end of the spring semester must be removed by October 1. If the work of the course is not completed by these dates, the grade shall be recorded as *F*.

No student shall be permitted to drop a course after the expiration of one-third the period of instruction of the course without incurring failure except for causes adjudged by the dean to be beyond the student's control.

REQUIREMENTS FOR THE DEGREE OF MASTER OF RELIGIOUS EDUCATION

The course of study leading to this degree is designed to provide training primarily for individuals desiring to become educational assistants in churches or to engage in other forms of Christian education.

Candidates for this degree must be graduates of accredited colleges with academic and personal records which afford promise of competence in this area of service. The course of study will be useful for individuals who have had one or more years of experience in religious education, and desire special training. Candidates for this degree will be limited in number, and individuals interested are urged to apply for admission well in advance of the opening of the academic year.

Certain prerequisite studies must have been taken by the candidate during the course of his academic training or must be secured, without credit toward the M.R.E. degree, after being admitted to the Divinity School. These are the following:

General Psychology	6 s.h.
Sociology	6 s.h.
Biblical Studies (including work in both the Old and the New Testaments)	6 s.h.

Thirty semester hours of academic work are required for graduation. Eighteen of the semester hours must be in the following fields:

Religious Education	6 s.h.
Psychology of Religion	3 s.h.
Christian Ethics or Social Ethics	3 s.h.
Biblical Studies	6 s.h.

The candidate must also engage in practice teaching in a church school or undertake some other approved project and must submit a written report covering this practical experience. This work will be under the supervision of the Department of Religious Education.

COURSES OF INSTRUCTION*

This is a condensed description of courses. For a full description, see Bulletin of the Divinity School.

I. DIVISION OF BIBLICAL STUDIES OLD TESTAMENT

201-202. First Hebrew.—6 s.h.	MR. STINESPRING
203-204. Introduction to the Old Testament.—6 s.h.	MR. STINESPRING
205-206. Elementary Arabic.—6 s.h.	MR. STINESPRING
207-208. Second Hebrew.—6 s.h.	MR. STINESPRING
301. The Religious Thought of Post-Exilic Judaism.—Prerequisite: Old Testament 203-204. 3 s.h.	MR. YOUNG
304. Aramaic.—3 s.h.	MR. STINESPRING
305. Third Hebrew.—3 s.h.	
[Not offered in 1945-46]	MR. STINESPRING
309. History of the Ancient Near East.—3 s.h.	MR. STINESPRING
310. Old Testament Prophecy.—3 s.h.	MR. STINESPRING
401-402. Thesis Seminar.	DEPARTMENTAL STAFF

NEW TESTAMENT

211-212. Hellenistic Greek.	MR. YOUNG
213-214. The Beginnings of Christianity.—6 s.h.	MR. CLARK
217. The New Testament in Greek.—Prerequisite: six semester hours' study of the Greek language. 3 s.h.	MR. CLARK
218. Galatians and I Corinthians.—Prerequisite: New Testament 217 or its equivalent. 3 s.h.	MR. CLARK
219. Life of Paul.—3 s.h.	MR. MYERS
220. I Peter and the Gospel of John.—Prerequisite: New Testament 217 or its equivalent. 3 s.h.	MR. CLARK
[Not offered in 1945-46]	
311. The Life and Teachings of Jesus.—Prerequisite: New Testament 213-214. 3 s.h.	MR. BRANSCOMB
312. New Testament Theology.—Prerequisite: New Testament 213-214. 3 s.h.	MR. YOUNG
313. Apostolic Fathers.—3 s.h.	MR. CLARK
314. Early Christian Apologists.—3 s.h.	MR. BRANSCOMB
316. Hellenistic Religions at the Beginning of the Christian Era.—Prerequisite: New Testament 213-214. 3 s.h.	MR. CLARK

* On recommendation of the professor in charge of the major field, courses offered in the Graduate School of Arts and Sciences other than those approved for credit in the Divinity School may be approved for credit in individual cases, provided no equivalent course is offered in the Divinity School; each case to be decided on its merits.

318. Text of New Testament.—Prerequisite: New Testament 213-214 and a reading knowledge of Greek. 3 s.h.
[Not offered in 1945-46] MR. CLARK
- 411-412. Thesis Seminar. DEPARTMENTAL STAFF

315. Judaism at the Beginning of the Christian Era.—Prerequisite: New Testament 213-214. 3 s.h.
[Not offered in 1945-46]
320. Rabbinic Literature.—Prerequisite: New Testament 213-214. 3 s.h.
[Not offered in 1945-46]

II. DIVISION OF HISTORICAL STUDIES

HISTORY OF RELIGION AND MISSIONS

281. Living Religions of the World.—3 s.h. MR. CANNON
282. Missions.—3 s.h. MR. CANNON
283. The Religions of the Far East.—3 s.h. MR. CANNON
[Not offered in 1945-46]
284. Comparative Religion I.—Prerequisite: 281. 3 s.h. MR. CANNON
[Not offered in 1945-46]
286. Comparative Religion II.—Prerequisite: 281. 3 s.h. MR. CANNON
[Not offered in 1945-46]
287. Mohammedanism.—Prerequisite: 281. 3 s.h. MR. CANNON
[Not offered in 1945-46]
288. The Religions of India.—3 s.h. MR. CANNON
[Not offered in 1945-46]
289. Buddhism.—Prerequisite: 281. 3 s.h. MR. CANNON
- 481-482. Thesis Seminar.—Prerequisite: six semester hours in the department. MR. CANNON

CHURCH HISTORY

233. Church History to the Reformation.—3 s.h. MR. PETRY
234. History of the Evangelical Movement.—3 s.h. MR. PETRY
331. The Social Message of the Early and Medieval Church.—Prerequisite: Church History 233-234. 3 s.h. MR. PETRY
332. The Medieval Church.—Prerequisite: Church History 233-234. 3 s.h. MR. PETRY
333. A History of Christian Renunciation in the Middle Ages.—Prerequisite: Church History 233-234. 3 s.h. MR. PETRY
[Not offered in 1945-46]
334. Church Reformers and Christian Unity.—3 s.h. MR. PETRY
[Not offered in 1945-46]
339. Methodism.—Prerequisite: Church History 233-234. 3 s.h. MR. PETRY
432. Religious Leaders of the Early and Medieval Church.—Prerequisite: Church History 233-234. 3 s.h. MR. PETRY
- 437-438. Thesis Seminar. DEPARTMENTAL STAFF

AMERICAN RELIGIOUS THOUGHT

391. Main Currents in American Religious Thought.—3 s.h. Mr. SMITH
[Not offered in 1945-46]
392. Christian Thought in America Today.—3 s.h. Mr. SMITH
393. Religious Thought in Colonial America.—3 s.h. Mr. SMITH
394. Religious Thought in Modern America.—3 s.h. Mr. SMITH
395. Social Thought in American Christianity.—3 s.h. Mr. SMITH
[Not offered in 1945-46]
396. Modern American Christology.—2 s.h. Mr. SMITH
397. Seminar in American Religious Thought.—2 s.h. Mr. SMITH

III. DIVISION OF THEOLOGICAL STUDIES

CHRISTIAN DOCTRINE

221. Platonism and Christianity.—Prerequisite: six semester hours in philosophy or its equivalent (Christian Doctrine 321). 3 s.h.
[Not offered in 1945-46] Mr. CUSHMAN
222. Theology and Philosophy in the Nineteenth Century.—Prerequisite: six semester hours in philosophy or its equivalent (Christian Doctrine 321). 3 s.h. Mr. CUSHMAN
321. Introduction to Theology.—3 s.h. Mr. ROWE
322. Introduction to Christian Theology.—3 s.h. Mr. CUSHMAN
324. The Content of Christian Doctrine.—Prerequisite: Christian Doctrine 321. 3 s.h. Mr. ROWE
325. Coteriology.—Prerequisite: Christian Doctrine 321. 3 s.h. Mr. ROWE
326. Eschatology.—Prerequisite: Christian Doctrine 321. 3 s.h. Mr. ROWE
327. Arminian Theology.—Prerequisite: Christian Doctrine 321. 3 s.h. Mr. ROWE
328. Current Theology.—Prerequisite: Christian Doctrine 321. 3 s.h. Mr. ROWE
329. The Person and Work of Christ.—Prerequisite: Christian Doctrine 321. 3 s.h. Mr. CUSHMAN
421. Philosophical Theology I.—Prerequisite: Christian Doctrine 321-322. 3 s.h. Mr. CUSHMAN
422. Philosophical Theology II.—Prerequisite: Christian Doctrine 321-322. 3 s.h. Mr. CUSHMAN
425. Seminar in Contemporary Theology.—Prerequisite: Christian Doctrine 321-322. 2 s.h. Mr. ROWE, Mr. CUSHMAN
[Not offered in 1945-46]
- 427-428. Thesis Seminar. DEPARTMENTAL STAFF

CHRISTIAN ETHICS AND PHILOSOPHY OF RELIGION

291. Christian Ethics I.—3 s.h. Mr. SMITH
292. Christian Ethics II.—3 s.h. Mr. SMITH
[Not offered in 1945-46]

398. Seminar in Christian Ethics.—2 s.h. MR. SMITH
 [Not offered in 1945-46]
- 491-492. Thesis Seminar. MR. SMITH

- *203. The Philosophy of Conduct.—3 s.h. MR. MORGAN
 [Not offered in 1945-46]
- *209. Philosophy of Religion I: Philosophical Introduction.—3 s.h. MR. WIDGERY
210. Philosophy of Religion II: Philosophical Introduction.—3 s.h. MR. WIDGERY
- *226. The History of Ethics.—3 s.h. MR. MORGAN
 [Not offered in 1945-46]

PSYCHOLOGY OF RELIGION

371. Psychology of Religion.—3 s.h. MR. HICKMAN
372. Advanced Psychology of Religion.—3 s.h. MR. HICKMAN
373. Psychology of Preaching.—3 s.h. MR. HICKMAN
 [Not offered in 1945-46]
374. Pastoral Psychology.—3 s.h. MR. HICKMAN
 [Not offered in 1945-46]
375. Genetic Psychology of Religion.—3 s.h. MR. HICKMAN
376. Studies in Mysticism.—3 s.h. MR. HICKMAN

- *206. Social Psychology.—3 s.h. MR. KOCH
- *223. Abnormal Psychology.—3 s.h. MR. LUNDHOLM
- *228. Psychology of Belief.—2 s.h. MR. LUNDHOLM
- †459. Introduction to Psychiatry.—2 s.h. MR. LYMAN
 [Not offered in 1945-46]

IV. DIVISION OF PRACTICAL STUDIES

HOMILETICS

241. Effective Speaking.—2 s.h. MR. RUDIN
246. Oral Interpretation of Literature.—2 s.h. MR. RUDIN
342. Theory and Practice of Preaching.—3 s.h. MR. CLELAND
343. Sermon Construction.—3 s.h. MR. CLELAND
347. Materials of Preaching.—3 s.h. MR. CLELAND
348. History of Preaching.—Prerequisite: Hom. 342. 3 s.h. MR. CLELAND

PRACTICAL THEOLOGY

253. Field Work I.—1 s.h. MR. ORMOND
 [Not offered in 1945-46]
254. Field Work II.—1 s.h. MR. ORMOND

* Course offered in the Graduate School of Arts and Sciences which is credited toward the degree of Bachelor of Divinity.

† Course offered in the School of Medicine which is credited toward the degree of Bachelor of Divinity.

352. Church Administration.—3 s.h.	MR. ORMOND
353. The Rural Church.—3 s.h.	MR. ORMOND
354. Parish Evangelism.—3 s.h. [Not offered in 1945-46]	MR. ORMOND
355. Public Worship and Ordinances of the Church.—3 s.h.	MR. ORMOND
356. The Urban Church.—3 s.h.	MR. ORMOND
*357. The Polity of the Methodist Church.—1 s.h.	MR. ORMOND
358. Church Music.—3 s.h.	MR. BARNES
547-458. Thesis Seminar.	MR. ORMOND

RELIGIOUS EDUCATION

261. The Educational Work of the Church.—3 s.h.	MR. SPENCE
262. Methods and Materials of Religious Education.—3 s.h.	MR. SPENCE
363. Worship and Drama.—3 s.h.	MR. SPENCE
365. History of Religious Education in Modern Times.—3 s.h. [Not offered in 1945-46]	MR. SPENCE
366. The Educational and Spiritual Values of Great Literature.—3 s.h.	MR. SPENCE
368. Theories of Religious Education.—3 s.h. [Not offered in 1945-46]	MR. SPENCE

SOCIAL ETHICS

236. Social Ethics.—3 s.h.	MR. HART
238. Religion and the World Crisis.—3 s.h. [Not offered in 1945-46]	MR. HART
299. Marriage and Family Counseling.—3 s.h. [Not offered in 1945-46]	MR. HART
421-422. Thesis Seminar.	MR. HART

†205. Social Pathology.—3 s.h.	MR. JENSEN
†206. Criminology.—3 s.h.	MR. JENSEN
†212. Child Welfare.—3 s.h. [Not offered in 1945-46]	MR. JENSEN
†215. Rural Sociology.—3 s.h.	MR. THOMPSON
†216. Urban Sociology.—3 s.h.	MR. THOMPSON
†217. Race and Culture.—3 s.h.	MR. THOMPSON
†319. Principles of Sociology.—3 s.h. [Not offered in 1945-46]	MR. JENSEN
†320. History of Sociological Theory.—3 s.h.	MR. JENSEN

* Courses on the polity of other churches will be arranged as needed.

† Course offered in the Graduate School of Arts and Sciences which is credited toward the degree of Bachelor of Divinity.

THE SCHOOL OF LAW

(IN ASSOCIATION WITH THE LAW SCHOOL
OF WAKE FOREST COLLEGE)

H. CLAUDE HORACK, Ph.B., LL.B., LL.D.

Dean

1944-1945
ANNOUNCEMENTS FOR 1945-1946

Member of the Association of American Law Schools.
Approved by the American Bar Association.

Summer Semester, 1945, begins May 28; Fall Semester,
1945, begins September 24; Spring Semester, 1946, begins
January 19; Summer Semester, 1946, begins May 27.

PROGRAM

The Duke Law School, in association with the Law School of Wake Forest College, is continuing its Wartime Program which was started in the summer of 1942. Under the plan of joint operation, the two schools will remain entirely separate except that students will meet in joint classes, all of which will be held in the Law Building at the Duke Law School.

Recognizing that great difficulties beset many of those who are seeking a legal education today, the Faculty of the Duke University School of Law has endeavored to minimize them through the efficient utilization of time. In making this endeavor, it has been constantly borne in mind that, both now and in the postwar world, those well trained in the law will find adequate opportunity for service.

The details of the School's Wartime Program are set forth under their appropriate headings elsewhere; in essence, however, it calls for a three-semester calendar year. Without sacrificing the quantity or quality of work previously required for graduation, this plan permits the full coverage of the entire regular three-year course in two calendar years if it is so desired. With but few exceptions each semester's work is complete in and of itself, and full programs for the first-, second-, and third-year students are offered each semester. Both beginning and advanced students may commence their work at the start of any of the semesters which are now scheduled to begin on May 28, 1945; September 24, 1945; January 19, 1946; and May 27, 1946.

Students who so desire may spread their work over three years by omitting one semester in any one calendar year. However, beginning students should take the first two semesters of work comprising the first-year course before omitting a semester.

In modifying its requirements to permit entrance after the completion of two years of college work, the Duke University School of Law continues to comply in full with the standards of the Association of American Law Schools and of the American Bar Association.

THE SCHOOL: ITS PURPOSES AND METHODS

Built on the foundation of the School of Law of Trinity College, with its history of legal instruction running back to the middle of the past century, the Duke University School of Law was established in 1924. In 1930 the School was moved into its new building, the Faculty and Library were greatly increased, and the activities of the School broadened. The School of Law is a member of the Association of American Law Schools and is on the "Approved List" of the American Bar Association.

The curriculum of the School of Law provides thorough preparation for the practice of law in any state, and since the enlargement of the School in 1930, its graduates have been admitted to the bar in forty states. Opportunities for specialization in particular branches of the law are afforded.

ADMISSION OF STUDENTS—REGISTRATION FEES

DIRECTIONS TO APPLICANTS FOR ADMISSION

Applications should be made on the prescribed Law School application blanks which will be sent upon request, and no application is complete until all required documents are on file. Each application for regular or advanced standing must be accompanied by a complete transcript of record and evidence of graduation or right to honorable withdrawal from the institution from which credit is offered. To the application blank should be attached a recently made personal photograph. Except in the case of veterans, letters from responsible persons with whom the applicant has been associated are required. Such letters should certify as to the character and ability of the applicant.

REQUIREMENTS FOR ADMISSION

Though the normal requirement for admission as a candidate for the degree of Bachelor of Laws has been three years of work completed in a college of approved standing, during the present emergency students presenting only two years of college credit (one-half of the work acceptable for a Bachelor's degree granted on the basis of a four-year period of study) may be accepted provided they show a higher average of work than that required for graduation in the college from which credits are offered. However, it is deemed most desirable that an applicant have at least three years of college credit before beginning law study.

VETERANS' ADMISSION REQUIREMENTS

Any person who served in the active military or naval service on or after September 16, 1940, and prior to the termination of the present war, and who shall have been discharged or released therefrom under conditions other than dishonorable, and who either shall have served ninety days or more (exclusive of any period he was assigned for a course of education or training under the Army Specialized Training Program or the Navy College Training Program), or shall have been discharged or released from active service by reason of an actual service-incurred injury or disability, may substitute such term of service for one year of the three-year college entrance requirement. Academic credits will be recognized if gained through examinations on work of college grade pursued while in the military or naval service, if such work is given credit by an approved college; such credits, however, may not exceed one year of the required two years of college study.

The Duke University School of Law has been approved by the Veterans' Administration for law study under the provisions of the Voca-

tional Rehabilitation Act, Public Law 16, and the Servicemen's Readjustment Act of 1944, Public Law 346, often referred to as the "G.I. Bill of Rights." Duke University maintains an office for the handling of the interests of the many students studying under the supervision of the Veterans' Administration. The Secretary of the University is liaison representative and any matters concerning veterans' rights may be taken up with his office.

GRADUATE RECORD EXAMINATION

The Carnegie Foundation for the Advancement of Teaching provides for examinations to be conducted in many parts of the country whereby a student has an opportunity to test his own performance and to obtain an impartial record of his knowledge. The scores given represent the student's standing with respect to his knowledge of the subjects tested. Applicants for admission are advised that reports of their scores on the Graduate Record Examinations will be regarded as valuable evidence concerning their fitness for admission as it is a test of the student's general intellectual accomplishment. Though not required, the scores made on this examination will be welcomed as an especially desirable credential. Students who take a Graduate Record Examination must make their arrangements directly with the Graduate Record Office, 437 W. 59th St., New York City. The charge for this examination is a nominal fee of \$3.00.

COMBINED COURSE

A number of colleges, upon application by their students, have permitted those who have completed three years of undergraduate work to enter the Law School of Duke University and upon the satisfactory completion of the first year of law school work to receive their Bachelor of Arts degrees from such colleges. It is suggested that students desiring to enter Duke University School of Law make inquiry of their proper college authorities regarding this point.

A student from an undergraduate college of Duke University who has completed three years of study may apply to that college to enroll in a combined course wherein his first year of law study may be accepted toward the Bachelor of Arts degree, and, upon the completion of four additional semesters of law study, he will receive the Bachelor of Laws degree.

ADMISSION TO ADVANCED STANDING

Any person who has complied with the requirements for admission set forth in this announcement prior to the commencement of his law study, who shall present evidence of the satisfactory completion of any part of the curriculum at any law school which is a member of the Association of American Law Schools, and who is eligible for readmission to the law school from which he proposes to transfer may be admitted to advanced standing, subject to such rules as would be applicable to students in this School having a comparable scholastic record.

CANDIDATES FOR GRADUATE DEGREES

Applications for admission to graduate study should be addressed to the Dean of the Law School and should include transcripts of records of legal and pre-legal work.

MATRICULATION, REGISTRATION, AND ENROLLMENT

Registration must be completed on the first day of each semester. Instruction will begin in all classes on the following day. The applicant must obtain from the Dean of the Law School an admission card, indicating that he is entitled to register. Registration is conducted in the Law Building.

REGISTRATION FOR BAR EXAMINATIONS

Many states now require that the student, prior to or shortly after beginning the study of law, must register with the board of bar examiners of the state in which he expects to practice. Each student should write to the secretary of the board of bar examiners of such state in order to be sure that all requirements are fulfilled.

CONDUCT OF STUDENTS

All students are admitted subject to the rules of the University and of the School of Law, and continuance in the School is conditioned upon the observance of such rules.

FEES AND EXPENSES

During the joint operation of the Duke University School of Law and the Law School of Wake Forest College, a uniform charge of \$125.00 per semester is made which includes tuition and fees. Payment must be made on or before registration day. A graduation fee of \$10.00 is payable by all students to whom a degree is awarded.

Board may be secured at approximately \$36.00 per month at the University Union.

The cost of law books will average, through the three years, between \$20.00 and \$30.00 per semester.

THE GRADUATE DORMITORY AND THE "LAW CABINS"

Furnished double rooms may be secured in the graduate dormitory on the West Campus at \$62.50 per person per semester. A few single rooms are available at \$75.00 per semester.

A group of log cabins, a part of the dormitory system, especially designed as a study center for law students, is located in the Duke Forest about five minutes' walk from the Law Building. These cabins, five in number, including a large cabin for use as a social hall, house thirty-two students. All rooms in the law cabins are furnished double rooms and may be secured at \$40.00 per person per semester.

These charges in each case include heat, light, water, and janitorial service but do not include pillows or bed clothing of any kind.

Rooms are reserved only for applicants who have been officially accepted by the University, upon application to the Director in the Business Division, Duke Station, Durham, North Carolina. A reservation fee of \$25.00 must accompany the application for a room. The reservation fee is deducted from the room charges at the time of registration.

REQUIREMENTS FOR BACHELOR OF LAWS DEGREE

BACHELOR OF LAWS DEGREE

Upon favorable recommendation of the Faculty, the degree of Bachelor of Laws will be conferred on students who shall have successfully completed six semesters' study of law, the last two semesters of work immediately preceding the granting of such degree having been completed in this School.

A student shall be deemed to have completed successfully six semesters' study of law if during this period he has

(1) secured a passing grade in courses aggregating the number of semester hours in the first-year program, in required courses in other years, and in courses constituting its faculty-approved student minimum programs for the second and third years;

(2) secured in every required course a grade not requiring repetition thereof; and

(3) secured an average grade at least five points above passing in all work taken other than first-year courses, or, if the grade in such work is lower than that above specified, an average grade of five points above passing in all work taken.

Students who shall have spent only their last two semesters of study in residence in this School must have received an average grade at least five points above passing for that year.

GRADUATE WORK IN LAW

REQUIREMENTS FOR ADMISSION TO GRADUATE STUDY

Any person who shall have received the first degree in law from a law school qualified for membership in the Association of American Law Schools may be admitted as a candidate for the degree of Master of Laws. In exceptional cases an applicant who does not meet all the above requirements may, on vote of the Faculty, be admitted to candidacy for this degree where he is able to demonstrate that he is specially qualified, as by reason of practice or teaching.

Any person holding the degree of Master of Laws from this or any other law school which is qualified for membership in the Association of

American Law Schools, on vote of the Faculty, may be admitted to candidacy for the degree of Doctor of Juridical Science provided he completed the work for the Master's degree with distinction.

THE DEGREE OF MASTER OF LAWS

Upon favorable recommendation of the Faculty, the degree of Master of Laws will be conferred on students who have successfully completed during a period of residence at this School totaling at least two semesters a course of study approved by the Committee on Graduate Study.

The courses of study leading to this degree are designed to provide for the needs of two classes of students: (1) graduates of approved law schools who desire an extra year of study for the purpose of undertaking an intensive study of some specialty, or who desire to broaden their legal education; (2) graduates of approved law schools who desire to teach law or engage in legal research and who intend to become candidates for the degree of Doctor of Juridical Science.

No thesis is required for the degree of Master of Laws. The course of study is prescribed by the Committee on Graduate Study after consultation with the individual student. Opportunity will be afforded the student to include in his program such second- and third-year law courses, not already completed, as are desirable for the rounding out or supplementing of his previous training. In some cases, courses in other departments of the University may be included. In the case of students whose interests lie in further preparation for practice, the course will normally include registration in subjects totaling twelve hours each semester. In the case of students interested primarily in legal research, a lighter schedule, so far as enrollment in formal courses is concerned, may be arranged. In cases where less than twelve hours work is prescribed for either semester, the Committee on Graduate Study may require that the student complete the work undertaken with a grade considerably higher than that required of candidates for the first degree in law.

THE DEGREE OF DOCTOR OF JURIDICAL SCIENCE

Upon favorable recommendation of the Faculty, the degree of Doctor of Juridical Science will be conferred on students admitted to candidacy for that degree who complete and submit a monograph or series of essays suitable for publication and deemed by the Faculty to be of distinguished character. At least one academic year, and, in the absence of an extension granted by the Faculty upon petition thereto, not more than three years, must elapse between the awarding of the Master's degree and the awarding of the degree of Doctor of Juridical Science. Students who have received the degree of Master of Laws from another law school must spend at least two semesters engaged in research at this School and in addition may be required to complete a course of study prescribed by the Committee on Graduate Study.

SPECIAL FACILITIES AND ACTIVITIES

THE LAW SCHOOL BUILDING

The Law Building, like all other structures on the main campus of Duke University, is in Tudor Gothic style of colorful Cambrian stone from the Duke University quarries. It was occupied by the School of Law for the first time in September, 1930.

THE LAW LIBRARY

The Law Library, containing a collection of seventy-eight thousand volumes, is the largest law school collection in the South. It consists of American and English statutory and case law; a collection of Continental law materials; treatises, digests, encyclopedias; the various selected case series; a comprehensive collection of legal periodicals; and publications in the fields of history, economics, government, and the other social sciences, supplemental to the strictly legal materials. The Library receives every current legal periodical of general interest printed in the English language.

THE LEGAL AID CLINIC

A Legal Aid Clinic was organized at the School of Law in 1931 under the direction of Professor John S. Bradway, who had directed similar undertakings in Philadelphia and Los Angeles. The purpose of the Clinic is threefold: to give the student experience in handling actual cases; to develop creative skills, techniques, and mental habits; to encourage a sense of responsibility to client, court, profession, and community.

THE PRACTICE COURSE

The practice course in the School of Law is under the direction of Judge T. D. Bryson, who for eight years was judge of the Superior Court of the Twentieth Judicial District of North Carolina. The object of the course is to offer advanced students an opportunity to visualize by actual experience the application of the principles of law imparted in other courses.

LAW AND CONTEMPORARY PROBLEMS

The School of Law publishes a quarterly, *Law and Contemporary Problems*, under the editorship from time to time, of Professors Cavers, Sanders and Latty. This periodical, now in its eleventh volume, presents in each issue a symposium on a problem of current legal importance, in which the interrelated social and economic, as well as legal, factors are discussed by writers of competence in these respective fields.

THE DUKE BAR ASSOCIATION

The Duke Bar Association was established in the spring of 1931. It is composed of all the students of the Law School and is organized along the lines of the American Bar Association. Its purpose is to introduce

the student to the problems considered by the bar in professional organizations and to develop professional consciousness and responsibility. The activities of the Association, which included publication of the *Duke Bar Association Journal*, have been suspended during the war period.

SCHOLARSHIPS AND LOAN FUNDS

A limited number of scholarships covering tuition and matriculation fees (\$250) are available to first-year students, graduates of approved American universities and colleges, who are in need of such assistance. Applicants must have made excellent records in their college work and must show unusual promise of success in the study of law.

Applications for scholarships should be presented to the Dean of the Law School, together with a transcript of college work and letters of recommendation from responsible persons, certifying to the character and fitness of the applicant.

Other scholarships are awarded, as funds may permit, to high-ranking students who have spent a year or more at the Law School. There are also a number of positions as assistants in the Law Library and as research assistants which are open to students, particularly in their second or third year, who do not receive other aids from the University.

The University administers certain endowed loan funds for the benefit of students who are not financially able to meet their expenses, for the purpose of aiding worthy students who have established a satisfactory record at the School to continue their education.

Two funds have been provided out of which small loans may be made to tide students over temporary financial emergencies arising during the course of the year. One of these was supplied by the Law School Guild and is limited as to amount and duration of loan. The other is due to the generosity of Mr. P. Frank Hanes of the Winston-Salem bar and is limited to the needs of selected students. These funds are administered by a committee of the Faculty.

WILLIS SMITH PRIZE

Mr. Willis Smith, a member of the Raleigh bar and Chairman of the Law School Committee of the Board of Trustees of Duke University, awards each year to that member of the graduating class of the Law School who has maintained the highest scholastic average during the entire three years of law school work, a prize consisting of a set of books selected personally by Mr. Smith each year for that purpose. To qualify for this prize the student must have made an outstanding record throughout his law school course.

ORDER OF THE COIF

A chapter of the Order of the Coif, national legal scholarship society, has been established at Duke University School of Law. Its purpose is "to foster a spirit of careful study and to mark in a fitting manner those who have attained a high grade of scholarship." Election is restricted to the ten per cent of the graduating class who have attained the highest rank in their law school work.

COURSES OFFERED

THE FIRST-YEAR PROGRAM

In order to make possible the accelerated program and to minimize loss of time for persons discharged from military service, all first-year courses are one-semester courses, thus making possible the beginning of law study in any semester. With but few exceptions courses previously continuing for two semesters are now completed in one semester but the total number of hours devoted to each course has not been diminished.

All of the first-year courses are required for graduation, although a student transferring to this School may, with the approval of the Dean, substitute therefor the first year of work taken in the school from which he has transferred. Repetition of a first-year course which a student has failed is required only if the instructor so indicates upon reporting the student's grades.

The first-year program will be repeated every two semesters and a student entering in any semester may complete his first year's work by the end of the succeeding semester.

The courses listed below comprise the work of the first year. Course descriptions appear later in this bulletin.

FALL SEMESTER, 1945		SPRING SEMESTER, 1946	
<i>Subject</i>	<i>Hours</i>	<i>Subject</i>	<i>Hours</i>
Criminal Law	3	Agency	2
Introduction to Procedure	3	Contracts	6
Personal Property	2	Family Law	2
Torts	5	Possessory Estates	2
Legal Bibliography	1*	Legal Bibliography	1*
	<hr/> 14		<hr/> 13

THE SECOND- AND THIRD-YEAR PROGRAM

Courses in the second and third years are elective, with the exception of Legal Ethics and Legal Aid Clinic I and II. Two semesters work in the Clinic is required of all students.

The satisfactory completion of forty-eight semester hours in addition to the first-year program is required for graduation. Second- and third-year students usually carry from thirteen to fifteen hours of courses each semester.

Up to two hours credit per semester may be obtained by students to conduct research on a legal problem. Arrangements for such work may be made upon the recommendation of the instructor under whose arranging either to engage in the individual study of a branch of law or supervision it is to be carried out.

The course in Pleading is prerequisite to the course in Practice. Except with the permission of the instructor, students may not enroll in courses numbered II before completing courses of the same name num-

* To be taken only during the student's first semester of law study.

bered I. Permission of the instructor is also required for enrollment in Federal Taxation Seminar by students who have not completed Taxation.

The courses for the second and third years of law study have been arranged in a sequence of four semesters. Each such course will be offered at least once during the four-semester period, but most of them will be offered only once. Irrespective of the semester in which he begins his second-year work, the student who continues through four successive semesters will normally have an opportunity to select from the School's entire offering of courses.

It is expected that this arrangement will be carried through subject to such changes as the Faculty may find to be necessary or desirable.

The courses listed below are planned to be offered for second- and third-year students and are more fully described later in this bulletin. Advanced students or students wishing to transfer from other law schools should write to the Dean of the Law School for the program of courses for the semester in which they are interested.

<i>Subject</i>	<i>Hours Per Semester</i>	<i>Subject</i>	<i>Hours Per Semester</i>
Administrative Law	2	Legal Aid Clinic I	3
Business Associations I	4	Legal Aid Clinic II	2
Business Associations II—Finance and Accounting	3	Legal Ethics	1
Conflict of Laws	3	Legislation	2
Constitutional Law	5	Municipal Corporations	2
Conveyancing	3	Negotiable Instruments and Banking	3
Credit Transactions	4	North Carolina Statutes	2
Debtors' Estates	3	Pleading	3
Equity I	3	Practice	4
Equity II	3	Regulation of Business	3
Evidence	4	Sales	2
Family Law Seminar	2	Seminar in Federal Taxation	2
Federal Jurisdiction and Procedure	2	Taxation	4
Future Interests	3	Trusts	3
Individual Study and Research	2	Wills and Administration of Estates	3
Labor Law	2		

1. GENERAL COURSES

Torts.—Five hours a week.

Equity I.—Three hours a week.

Equity II.—Three hours a week.

Trusts.—Three hours a week.

Conflict of Laws.—Three hours a week.

Family Law Seminar.—Two hours a week.

Family Law Seminar.—Two hours a week.

North Carolina Statutes.—Two hours a week.

2. BUSINESS COURSES

Contracts.—Six hours a week.

Agency.—Two hours a week.

Sales.—Two hours a week.

Negotiable Instruments and Banking.—Three hours a week.

Business Associations I.—Four hours a week.

Business Associations II—Finance and Accounting.—Three hours a week.

Credit Transactions.—Four hours a week.

Debtors' Estates.—Three hours a week.

Regulation of Business.—Three hours a week.

3. PROPERTY COURSES

Personal Property.—Two hours a week.

Possessory Estates.—Two hours a week.

Conveyancing.—Three hours a week.

Future Interests.—Three hours a week.

Wills and Administration of Estates.—Three hours a week.

Trusts.—Three hours a week.

4. PUBLIC LAW COURSES

Criminal Law and Its Administration.—Three hours a week.

Constitutional Law.—Five hours a week.

Administrative Law.—Two hours a week.

Labor Law.—Two hours a week.

Legislation.—Two hours a week.

Regulation of Business.—Three hours a week.

Municipal Corporation.—Two hours a week.

Taxation.—Four hours a week.

Seminar in Federal Tax Problems.—Two hours a week.

5. PROCEDURE AND PRACTICE COURSES

Introduction to Procedure.—Three hours a week.

Pleading.—Three hours a week.

Practice.—Four hours a week.

Evidence.—Four hours a week.

Federal Jurisdiction and Procedure.—Two hours a week.

Legal Ethics.—One hour a week.

Legal Aid Clinic I.—Three hours a week.

Legal Aid Clinic II.—Two hours a week.

6. LEGAL RESEARCH AND WRITING

Legal Bibliography.—One hour a week, each semester.

Individual Study and Research.

THE SCHOOL OF MEDICINE

WILBURT CORNELL DAVISON, A.B., B.A., B.Sc., M.A., D.Sc., M.D.
Dean

1944-1945 ANNOUNCEMENTS FOR 1945-1946

Winter quarter begins January 1, 1945, ends March 24;
Spring Quarter begins April 2, ends June 23; Summer
Quarter begins July 2, ends September 22; Autumn Quar-
ter begins October 1, ends December 22.

GENERAL STATEMENT

Duke University School of Medicine and Duke Hospital were established in 1925, through the munificent gift of the late James B. Duke. The *School of Medicine* has been planned to insure the greatest correlation between the various departments. These facilities are available also for students who are studying for degrees other than that of Doctor of Medicine. The School of Medicine has been approved as Class A by the American Medical Association and is also a member of the Association of the American Medical Colleges. On January 2, 1945, two hundred and ninety-six students were enrolled.

FACILITIES OF THE HOSPITAL

Duke Hospital, an integral part of Duke University School of Medicine, has every modern convenience for the diagnosis, proper care, welfare and comfort of the patients, both private and charity, white and colored, whether they come from Durham or from a distance. It has 604 beds, including 50 bassinets for newborn infants. *Medicine*, including dermatology and neurology, has 75 ward beds; *surgery*, including urology, otolaryngology, ophthalmology, and orthopaedics, 143 wards beds; *obstetrics*, including *gynecology*, 56, and 50 bassinets; *neuropsychiatry*, 23; and *pediatrics*, 52. There are 205 private rooms and semiprivate cubicles, 7 air-conditioned operating rooms, 4 obstetric delivery rooms, and ward and student laboratories. Offices and examining rooms for the members of the Medical Faculty are located in the Hospital. The Hospital has been approved for internships and residencies by the Council on Medical Education and Hospitals of the American Medical Association, and the American College of Surgeons.

Duke Hospital and its Public Dispensary were opened for patients on July 21, 1930. Two hundred and thirty-one thousand, eight hundred individuals have been examined, diagnosed, and treated up to June 30, 1944. The average daily census of hospital patients during the past year was 441; 82,764 visits were made to the Public Dispensary during the same period. Fifteen per cent of the patients come from within a radius of twenty miles, the remaining 85 per cent come from the other 99 counties in North Carolina and from 27 other states and 3 foreign countries. The average distance traveled by the patients is more than seventy miles.

Every effort is being made to co-operate with the medical profession, and patients are asked to return to the physicians who referred them to the Hospital and Clinic.

PUBLIC WARD PATIENTS. Duke Hospital cannot give charity treatment to all who apply; therefore, patients whose incomes are less than \$15 per week should apply to the Public Dispensary Division of the Duke Clinic.

PRIVATE PATIENTS. Patients who can pay the ward and private rates may at any time, through their family physicians, in consultation with any member of the Hospital Staff, make reservations by telephoning to

the Admitting Office. Appointments for private examinations and treatments may be made in advance by telephoning to members of the Hospital Staff or to the Private Diagnostic Division of the Duke Clinic.

The next class of students will be admitted to the Duke University School of Nursing on October 1, 1945, but applications will be considered at any time. Information about the entrance and other requirements, length of course, tuition fees, application forms, and bulletins may be obtained by writing to the Dean of the School of Nursing, Duke University, Durham, N. C.

SCHOOL OF DIETETICS

In addition to the training of medical students and nurses in dietetics, twelve student dietitians may be admitted to the School of Dietetics and given the certificate of graduate dietitian after the successful completion of one year. The entrance requirements are a Bachelor's degree from an approved university or college, with majors in nutrition and institutional management, and the courses in chemistry, biology, social science, and education recommended by the American Dietetic Association. The course for student dietitians provides instruction in all phases of hospital and institutional dietetics, including experience from the buying and storage of food to its service to the patients according to the physician's orders. In addition, if applying for graduate credit, they will be required to complete the courses in biochemistry, nutrition, and selected portions of physiology as given to the medical students.

More detailed information and application blanks may be obtained from the Professor of Dietetics, Duke University School of Dietetics, Durham, N. C. The course starts the first of July and the first of September. If a student receives advanced credit, a tuition fee of \$50 is charged. All students pay a registration fee of \$10 at the time of appointment; maintenance is provided.

HOSPITAL ADMINISTRATION

After the war four internships in hospital administration leading to a certificate will again be available to university graduates whose character, tact, and ability for leadership are good, and whose academic standing is high. These internships are of three years' duration and pay a small salary in addition to room, board, and laundry. Vacations of two weeks are allowed at the beginning of the second and third years of internship.

The instruction is practical rather than theoretical in emphasis. The interns are rotated through five different assistant administrative positions in the Hospital. There is also a weekly seminar lasting two hours.

During these three years, the interns also register in the Graduate School of Duke University, and receive the A.M. degree after the successful completion of a thesis and twenty-four semester hours of University courses in various fields. Further information may be obtained by writing to the Superintendent, Duke Hospital, Durham, N. C.

COURSE IN LABORATORY TECHNIQUE

The course in laboratory technique includes training in blood chemistry, clinical microscopy, bacteriology, serology, basal metabolism, and histopathological technique. The course, which is approved by the Registry of Technicians of the American Society of Clinical Pathologists, lasts eighteen months. A new class will be admitted every nine months on the same dates that each class of first-year medical students is admitted. Two years of college work are required with credits in biology or zoology, and inorganic, analytical and organic chemistry. The registration fee is \$75, and there are no additional charges, except for breakage. The students live in town at their own expense. Applications may be sent to Dr. David T. Smith, Duke Hospital, Durham, N. C.

ANESTHESIA

A twelve months' course in Anesthesiology is offered to six registered nurses each year. Appointments are made on the basis of individual merit and qualifications. Classes begin each January 15, April 15, July 15 and October 15. A tuition fee of \$100.00 covers all necessary expenses as full maintenance is provided for each appointee. The training includes two hundred hours of Theory of Anesthesiology. Practical experience, averaging seven hundred and fifty anesthetics, is given in the administration of all agents and techniques in modern usage. A graduate of this course is eligible for membership in the American Association of Nurse Anesthetists. Additional information concerning the training, and application forms may be obtained from Miss Mary H. Snively, Duke Hospital, Durham, N. C.

MEDICAL SOCIAL SERVICE

Medical Social case-work service is offered to patients referred by personnel within the Hospital, and by interested individuals and health and welfare agencies outside of the Hospital. Assistance and advice in connection with the problems presented are available to the members of the Staff and referring agencies.

The department assists in teaching social aspects of illness and medical care through consultations and lectures to the various students within the Duke Medical and Nursing Schools. It also serves as an agency for supervised field work for students of the Graduate School of the University of North Carolina. Further information concerning training for advanced students may be obtained from the Social Service Department, Duke Hospital, Durham, N. C.

RECORD LIBRARY

A course for the training of medical record librarians, which has been given full approval by the American Association of Medical Record Librarians, and the American Medical Association, includes all details of the theory and practice of clinical record library methods. The length of the training is twelve months. The tuition fee is \$100 and does not include maintenance. Applications may be made to the Medical Record Librarian, Duke Hospital, Durham, N. C.

PHYSICAL THERAPY

A twelve months' course in physical therapy is offered for men and women graduates of accredited schools of physical education or nursing. For the duration of the war selected applicants who have completed sixty college semester hours including credit in the sciences will be accepted. The curriculum provides instruction in anatomy, physiology, kinesiology, pathology, psychology, electrotherapy, neuropsychiatry and practical pathology. Instruction in the clinical subjects will be given by members of the faculty of the Duke University School of Medicine. Practical training will be given at Duke Hospital and affiliated institutions and includes supervision of orthopaedic problems in the Durham Public Schools. Students are accepted twice yearly, in September and March. The tuition fee is \$200.00. A certificate is awarded upon successful completion of the course. In addition to the training of physical therapy students, courses are given to members of the nursing school and to the medical students. Further information concerning the Course in Physical Therapy and application blanks may be obtained from Miss Helen Kaiser, Duke Hospital, Durham, N. C.

POSTGRADUATE STUDY

The School of Medicine is not limited to the training of its own students and Staff, but extends to the members of the medical profession the benefit of everything it has. Graduates in medicine are welcomed especially at the various clinics and demonstrations in medicine, surgery, obstetrics, and other specialties, which are held from 9 A.M. to 12:30 P.M. each Saturday and at the clinical-pathological conferences at 5 P.M. on Fridays. Postgraduate internships for one or two weeks are available to physicians in practice. No fees are charged; room and board can be obtained for \$20 per week. Further information may be obtained by writing to the head of the department concerned or to the Dean.

INTERNSHIPS AND RESIDENCIES

Internships of nine months' duration with room, board, laundry, and uniforms furnished, but without salary, are available in *medicine, surgery* (including general surgery, urology, and orthopaedics), *orthopaedics, urology, otolaryngology-ophthalmology, dentistry, obstetrics and gynecology, endocrinology, pediatrics, neuropsychiatry, and pathology*, commencing July 1, 1945, April 1, 1946 and January 1, 1947.

Application blanks for all internships, which must be returned at least three months before the beginning of the internship desired, may be obtained by writing to the Superintendent, Duke Hospital, Durham, N. C. Graduates of any Class A medical school are eligible for internships.

After the completion of an internship in Duke Hospital or in another acceptable hospital, a certain number may be appointed as assistant residents in medicine, surgery, obstetrics and gynecology, pediatrics, psychiatry, neurology, dermatology, orthopaedics, urology, otolaryngology, ophthalmology, roentgenology, pathology, biochemistry, or the Student Health Service, or as fellows of the Private Diagnostic Clinic, at a salary of \$250 to \$500 per year with maintenance, and eventually may be promoted to the

residency in the various departments or subdepartments of the Hospital at an annual salary of \$500 to \$1,000 with maintenance. Applications should be made to the head of the department concerned.

LIBRARY

In addition to the General Library of Duke University and the departmental libraries of biology, chemistry, physics, etc., which have 664,191 volumes available for medical students, Duke Hospital Library contains 41,579 volumes of American and foreign medical literature and subscribes to 440 current American and foreign medical and other scientific journals. These books and journals are available daily from 8:30 A.M. to 11:00 P.M. for the students, nurses, Staff, and medical profession.

REQUIREMENTS FOR ADMISSION

Intelligence and character are the essential qualifications for admission.

The minimum requirements for admission to this School include approved college credits of not less than three full academic years, which shall include adequate preparation in English, mathematics, physics, biology, and chemistry.* This preparation should be obtained in college courses of one-year duration except for chemistry. In that subject a two-year course is recommended: the first year to cover general (inorganic) chemistry; the second, analytic and organic chemistry.

The premedical student should be aware of the importance of a well-rounded general education as a preparation for the study of medicine and not limit himself to scientific courses. He would be better advised to secure a knowledge of the principles and a thorough appreciation of the interrelations of the basic sciences than to accumulate credits in many courses. He should learn how to work independently, to observe critically, and to analyze, rather than simply store, the information presented. His choice of studies, beyond those required for admission, should be governed by his own chief interests and by the intellectual stimulus to be derived from the work. His major interest may be in any field, scientific or otherwise, and should provide an opportunity for the demonstration of his real ability. In general, he should avoid courses in subjects which are included in the medical curriculum.

The selection of students is based upon the quality rather than the quantity of preparation and upon demonstrated evidence of personal attributes of intelligence, character, and general fitness for the study and practice of medicine. In considering an applicant many sources of information may be consulted, including (1) his curricular and extracurricular

* For the duration of the war, students may be eligible for admission who present collegiate credits of two academic years (four semesters or six trimesters), including English, theoretical and practical courses in physics, biology, general and organic chemistry, completed in approved institutions. These requirements are covered in the fifteen to twenty continuous months of the Army and Navy Specialized Training Programs.

Under present regulations only students who are ineligible for military duty may apply for admission to medical schools during 1945. Applications will be sent to those ineligible for military duty if they will write to the Committee on Admission, Duke University School of Medicine, Durham, N. C. They can be considered for the class starting October 1, 1945. Students who are eligible for military duty will be selected by the Army and the Navy from the ranks, and will be assigned to the various medical schools.

college record, (2) carefully prepared, confidential appraisals by teachers who know him personally, (3) his percentile rating on the Medical Aptitude Test,* and (4) the results of an interview with members of the Admission Committee or one of its Regional Representatives.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE IN MEDICINE

After the completion of six quarters in the Duke University School of Medicine, Duke University, on the recommendation of the Executive Committee, grants the degree of Bachelor of Science in Medicine to medical students who have completed creditable investigative work, prepared an acceptable report of the investigation, and passed an examination upon the subject of the investigation before an advisory committee. Students who elect to undertake work toward this degree must obtain written permission from the Executive Committee after approval of their program by the head of the department in which the work is to be done. No credit toward this degree is given for additional college work. All students in good standing are encouraged to undertake such investigative work as they may elect with the approval of the head of the department in which they wish to work. All requirements must be completed three months prior to the date on which the B.S. degree is requested.

REQUIREMENTS FOR THE DEGREE OF DOCTOR OF MEDICINE

The degree of Doctor of Medicine is conferred on those who have completed, to the satisfaction of the Executive Committee, the twelve quarters of 11-12 weeks each of the curriculum of the School of Medicine, the preclinical and clinical examinations, and have signed an agreement that they will spend at least eighteen months of the succeeding three years in hospital or laboratory work acceptable to the Executive Committee. As a guarantee of this pledge the diploma is deposited in the Treasurer's Office until after the completion of this training. Failure to fulfill this agreement constitutes a waiver of any claim to possession of the diploma and the degree of Doctor of Medicine. During the war, the required period of approved hospital or laboratory training has been reduced to eighteen months, the latter half of which may be active duty in the Army, Navy or U. S. Public Health Service.

* This test is given at many of the colleges. If information is not available locally, it may be secured from Dr. F. A. Moss, Columbia Medical Building, Washington, D. C.

DEPARTMENTS OF INSTRUCTION

Anatomy

The required courses of instruction in gross human anatomy, histology, and neurology are scheduled for five and one half days a week for a period of eighteen weeks during the first quarter and the first half of the second quarter. In all of this work considerable freedom is allowed the student in his selection of working hours and in the planning of his own methods of attack. Emphasis is placed upon the study of material in the laboratory. In an attempt to utilize more fully the laboratory time, visual educational methods are employed as fully as possible. These techniques consist of colored motion pictures of demonstration dissections, colored lantern slides, animated motion pictures of development and movies of serially sectioned material both embryological and neurological. All of the instruction is designed to be as informal and as nearly individual as possible. General principles and the functional viewpoint of living anatomy are stressed in the hope that the student may be stimulated to secure a working knowledge of anatomy in the broadest sense. Whenever possible, fresh tissues and living cells are made available for examination, and clinical cases exemplifying anatomical principles are studied whenever they are available at appropriate times. Through the co-operation of the Department of Radiology, the students are given an opportunity to study portions of the living human body as revealed by the fluoroscope and roentgenograph.

Demonstrations in Anatomy. Using dissections already prepared, weekly demonstrations of selected regions or systems are made by the members of the group. Sixth quarter—Two hours per week by arrangements. Second-year students in groups of 10.

Review in Anatomy. During the sixth quarter, a review in anatomy will be presented by the visual education methods outlined above, covering gross anatomy, neurology and histology. This optional review carries no units of credit. It is designed to refresh the student's knowledge of anatomy just before he begins to apply it during the clinical quarter.

Special Neuroanatomy. Laboratory work and conferences upon selected portions of the human central nervous system. A two-quarter course limited to 6 junior or senior students. Tuesday and Thursday mornings of the first quarter are devoted to study of sections and dissections of the brain stem. Satisfactory completion of the first quarter will determine admission to the second quarter seminars—2 hours weekly by arrangement—upon special topics in neuroanatomy and neurophysiology.

Brain Modeling. Free-hand reconstruction in clay, from gross and sectioned material, of the chief tracts and nuclei of the human brain stem. A two-quarter course, by arrangement—4 to 10 students.

Experimental Neurology. An operative and laboratory study of the effect of various lesions upon the central and peripheral portions of the nervous system. 4 to 8 junior and senior students by arrangement. Prerequisite—operative surgery.

Seminar. This work is designed for those who are interested in becoming acquainted with some of the original literature on anatomical problems. A wide range of choice in the selection of topics is encouraged. Weekly, any quarter; time by arrangement. 6 to 10 students.

Advanced Studies in Anatomy. Further work in the several branches of anatomy may be arranged at any time. Prospective candidates for such work should discuss their wants with the members of the Staff in charge of the particular field in which work is requested, since only a small number can be accommodated at any one time. A few properly qualified students may be permitted to undertake original research under the direction of various members of the Staff.

Biochemistry

The required course in general biochemistry for first-year students is given over a period of eighteen weeks comprising the last half of the second quarter and throughout the third quarter. Two lectures, four laboratory periods, and one conference period per week are devoted first to the correlation of the fundamental facts and theories of physical and organic chemistry of proteins, fats, and carbohydrates with the chemistry of living organisms; followed by an intensive study of the chemical aspects of the processes of digestion, absorption, circulation and respiration, acid-base and salt equilibrium, intermediary and over-all metabolism. Each student carries out on himself a fairly complete, metabolic balance study involving quantitative analyses of blood and urine.

Since the success of the students in this course is largely determined by the adequacy and ready availability of their premedical training, it is urged that all students review the fundamental laws, theories, and facts of chemistry before the beginning of the course. A circular outlining the topics requiring special attention is sent to all students upon admission. Additional copies of the circular may be obtained from the Dean's Office. An examination to test the state of preparation of the student is given in the beginning of the course in biochemistry.

Electives. In connection with the course given in the sixth quarter for second-year students a survey of pathological and clinical chemistry is presented. In this course are covered abnormalities of: protein, fat and carbohydrate metabolism, acid-base regulation, salt and water distribution, nitrogen retention, calcium and phosphorus metabolism, blood and derived bile pigments. The discussion of these topics is based upon case histories, including the records of the Clinical Chemical Laboratory of the Hospital.

Biochemical Research. The facilities of the department, including various types of research equipment and the clinical material of the blood chemistry laboratory, are available to properly qualified students for inde-

pendent or supervised investigations. Chemical investigations of problems in biochemistry or in conjunction with the clinical departments and the Department of Pathology may be carried on.

Seminar in Toxicology. A round-table discussion of the homicidal, suicidal and industrial poisons, alcoholism, etc., by arrangement.

Laboratory Detection of Common Poisons. A laboratory course in the properties, detection, and identification of the common poisons. Consideration is given to the types of material to be examined, legal precautions to be taken and interpretation of the findings, by arrangement.

Chemistry of Proteins, Enzymes, and Viruses. A two-hour seminar is given weekly throughout the Autumn, Winter, and Spring Quarters.

Immunochemistry. A two-hour seminar given in collaboration with the Department of Bacteriology. This course is given in alternate years with the preceding course in protein chemistry.

Physiology, Pharmacology, and Nutrition

The elements of physiology, pharmacology, and nutrition are taught in the laboratory and in frequent conferences.

Research. A few properly qualified students are permitted to undertake original research in physiology, pharmacology, or nutrition under the direction of various members of the Staff.

Pathology

General Pathology. The course in general pathology is given during the fourth and fifth quarters of the curriculum, following completion of the prerequisite courses in anatomy, physiology, and biochemistry. The course in pathology is coordinated with that in bacteriology, the timing and arrangement of the two courses being such that the general principles governing the growth and propagation of bacteria are covered before the students undertake the study of bacterial parasitism in the course in general pathology.

The objects of the instruction in pathology are briefly as follows: (a) to provide an opportunity for the medical student to gain a comprehensive knowledge of general biological principles as they may be observed in the diseased animal, (b) to guide the student in his study of the basic pathological reactions of animal tissues and of the individual as a whole to the environmental influences under which they live, and (c) to acquaint the students with the common disease entities. The course embraces a study of the nature, causation, development and outcome of disease, in brief, a comprehensive study of the reactions of the body to injury. The schedule of instruction falls into three major divisions, each dealing with one of the basic reactions to injury (submission, resistance, adaptation) and the disease entities arising out of their elaboration. A short period of orientation introduces the three major divisions of the schedule.

The permanently preserved materials of instruction consists of (a) a museum of fixed tissues, preserved in unsealed containers in each of which are deposited the organs from a single case, (b) the histological prepara-

tions made in the study of these cases, (c) complete clinical and anatomical protocols corresponding to the cases, and (d) a supplementary loan collection of microscopic preparations and lantern slides. These materials are in addition to those from the current autopsies, which average about 325 a year. All materials are catalogued and are grouped in such a way as to facilitate their use by the individual students and by the small groups into which the class is divided.

All the museum work of the class is done with small groups, each under the guidance of a senior instructor and his junior assistant. The assignment of instructors is changed at appropriate intervals. The chief emphasis of instruction is upon the basic pathological processes underlying the well-established disease entities. The central theme of the course is carried by lectures which orient the museum work of the various student groups. Although the emphasis is upon the basic reactions to injury and the corresponding pathological processes, this is accomplished through the study of actual cases of human disease in which these general pathological processes occur. Disease is presented to the study as a natural phenomenon referable to the body as a whole, and no distinction is drawn between the basic pathological processes as they may happen to occur in the different organs of the body; nevertheless, adequate account is taken of their variations in localization and associated functional disturbances, etc., under different sets of circumstances, as the cases of well-defined disease entities are studied. The histological aspects of the pathological processes are studied coincidentally with the gross anatomical and physiological alterations of the tissues, thus maintaining a unity of conception of disease. As the various pathological processes and the disease arising from their elaboration are studied by the student groups, assignments involving reports on the study of groups of cases are made to individual students.

The group work and the individual student reports are supplemented by weekly conferences involving the class as a whole and dealing with problems presented by current autopsies and with other problems of general importance. Student collaboration in the post-mortem study is required. For this purpose the class is divided into groups of three students. One of these makes a bacteriological study of the case, but each student is required to make his own general pathological study of the case with appropriate protocols. Cases thus prepared are presented by the students before the class under the direction of the Staff; this takes the form of a clinical-pathological conference in which each student plays a separate role.

Elective Courses. Special courses in pathology are given to students who have completed the course in general pathology. These courses are elective and are available through special arrangement.

Clinical Pathological Conference. A weekly clinical pathological conference for advanced study, held during three quarters of the year, is open to all persons interested, but is designed especially for the Hospital and Medical School Staff. Attendance by all the students is encouraged

but is optional. This conference deals with a single case which serves as a text for the discussion of fundamental problems related to the nature, cause, development, and treatment of disease.

On alternate Saturdays a diagnostic clinical-pathological conference is held in collaboration with the staffs of the medical and pediatric departments, dealing with current autopsies from these services. Attendance of the junior and senior students is required at this conference, in which they take an active part.

Miscellaneous weekly clinical-pathological conferences dealing with current cases under treatment on the various surgical services are held for instruction of the resident staffs concerned.

Student Research. Research facilities are provided for competent students. Those who show an interest in investigative work are given every encouragement and are allowed to work independently or in collaboration with the Staff.

Postgraduate Instruction. The Staff of the department is composed of senior nonresident and junior resident members. The junior residents Staff consists of interns, assistant residents, and a resident; all of these are active teachers as well as advanced students of disease. Ample opportunity for the development of careers in the field of pathology is provided for these men. Appointments are renewable over a number of years with appropriate advancement for those who demonstrate ability and adaptability for work in this field.

Medicolegal Instruction. The department works in close cooperation with the local coroner's office. A large proportion of the coroner's post-mortem investigations are made by the Staff. Special medicolegal investigations for others are undertaken from time to time. The department collaborates with other departments of the Medical School and with the Law School in an elective course in legal medicine that is given in alternate years.

Comparative Pathology. The department maintains a pathological diagnostic service for the State Laboratory of Animal Industry, from which valuable materials are obtained for the study of diseases of domestic animals. This connection also facilitates a close collaboration in experimental investigations between the Staff and the Bureau of Animal Industry.

Bacteriology and Parasitology

Bacteriology, Immunology, Parasitology, and Mycology. The required course is given in the fourth quarter. An intensive study is made of the common bacteria, fungi, and parasites which cause disease in man. The scope of the laboratory course is reasonably wide and acquaints the student with all the methods and procedures employed in bacteriological laboratories. Most of the lecture time is devoted to the immunological and epidemiological aspects of infection. The instruction is designed to give the students a clear conception of: (1) how organisms gain entrance to the body, (2) the type of poisons which they produce, (3) the nature

of immune bodies which are produced by the host, and (4) the methods of preventing the disease by active and passive immunization.

Research Bacteriology. Opportunities for original investigations are afforded a few specially qualified students.

Clinical Bacteriology. During their clinical clerkships on medicine (one quarter each for junior and senior classes), the students may perform the routine and special bacteriological work for the patients assigned to them on the teaching service, under the direction of the Department of Bacteriology and in parallel with the Biological Division of the medical clinic.

Medicine

Clinical Microscopy is given in the fifth quarter. The course includes the essentials of hematology and the examination of fresh material, such as urine, stools, spinal fluids, sputum, transudates, and exudates. The most important parasites of man are studied by the use of fresh and museum material. Second-year and senior students are given opportunities for special work and for investigation.

Physical Diagnosis and Introduction to Clinical Medicine. This course, in the sixth quarter, consists of instruction in history taking, physical examination, and the application of the preclinical science to the interpretation of findings. All departments, preclinical and clinical, including the specialties, participate. The importance of co-operation between clinic and laboratory is emphasized, and the preclinical departments extend the teaching of their particular branches in correlation with other preclinical and clinical studies. In this manner the course serves as an introduction to clinical medicine. The class is divided into sections of not more than ten students, and each student is given individual instruction.

Junior Medicine. Junior students are assigned in small groups for one quarter to the medical wards as clinical clerks. Teaching rounds are held from 8:30 to 9:30 A.M. on Mondays, Wednesdays, and Fridays. Medical clinics are given on Mondays, Wednesdays, and Saturdays at 11:30 A.M.

Therapeutics. Each group of junior students receives practical instruction in *pharmaceutics* under the guidance of an instructor in pharmacy. On Tuesdays and Thursdays from 1:30 to 2:30 P.M. bedside instruction is given in *applied pharmacology and therapeutics* to the group on Junior Medicine.

Senior Medicine. Senior students are assigned for one quarter to the Dispensary as clinical clerks. Teaching rounds are held from 9:30 to 11:30 A.M. on Mondays and Fridays. Seniors attend medical clinics on Mondays, Wednesdays, and Saturdays at 11:30 A.M.

Cutaneous Medicine and Syphilology. Instruction consisting of lectures, seminars, and study and treatment of patients in the out-patient clinic is offered each quarter to senior students.

Neurological Medicine. A sound understanding of neurological diseases is an essential equipment of every physician. Junior students are assigned neurological cases routinely during their service as medical

clinical clerks. An elective course consisting of advanced bedside teaching in clinical neurology is offered for three quarters to senior students. The Laboratory of Experimental Neurology is available for postgraduate investigative work; this laboratory handles routinely the neurosurgical biopsy material, including intracranial tumors. An electro-encephalograph is in routine clinical use in both neurology and neuropsychiatry and is available for special research problems.

Neuropsychiatry

Instruction starts in the first year with an introductory course in psychobiology. In the second year methods of psychiatric examination and a general presentation of the main reaction types are given. Each third year student has a two-week clerkship on the psychiatric ward, and in the fourth year patients are worked up in the out-patient clinic for a period of three and a half weeks. A neuropsychiatric amphitheater clinic is held weekly throughout the year for third and fourth year students. Elective courses in Neuropsychiatric Methods of Research, Neurophysiological Aspects of Neuropsychiatry, Psychosomatic Medicine, Psychonanalysis in Medicine, and Principles of Psychotherapy are offered to fourth year students. Students are invited to attend the staff case conferences, the monthly psychosomatic conference, and the conferences on neuropsychiatric disorders of childhood. Emphasis is placed upon the close relationship of psychiatry to other branches of medicine. Internships are available in neuropsychiatry with the expectation that they will lead to progressively greater interest in the neuropsychiatric problems encountered on all other services in the Hospital. Investigation is encouraged.

Surgery

General Surgery. In the sixth quarter the second-year students, during their course in physical diagnosis, attend clinics and demonstrations arranged to familiarize them with the techniques of examinations and the diagnostic procedures used in general surgery and the surgical specialties. Emphasis is placed on the more practical and commonly used methods.

During the last six quarters at 11:30 A.M. on Tuesdays and Fridays and at 9:30 A.M. on Saturdays, clinics in surgery and the surgical specialties are held for junior and senior students. The *junior* students, during their surgical quarter, attend ward rounds in surgery from 8:30 to 10:30 A.M. on Mondays, Wednesdays, and Fridays, act as clinical clerks on the wards, assist in the operative treatment of patients assigned to them, and attend the regular clinics on Tuesday and Thursday afternoons. They obtain experience in anesthesia and operative surgery on animals with emphasis placed on general surgical principles. The surgical students in the *senior* year attend ward rounds from 8:30 to 11:30 A.M. on Mondays, Wednesdays, and Fridays, all the regular clinics, and assist in the surgical dispensaries in the afternoon. Also in groups of two for the proportionate time available they are assigned to the emergency division of the Out Patient Department where they assist in the diagnosis and care of

urgent conditions, and to the anesthesia division where they obtain instruction and practical experience in anesthesia. Individuals may take any of the electives offered.

A six days concentrated course of training in the administration of anesthesia is open to twenty-four medical students each school quarter. Properly qualified students observe and administer anesthesia under direct supervision of staff anesthetists.

Otolaryngological Division. An introductory course of instruction in the use of otolaryngological instruments, with a review of normal anatomy, is given to second-year students in the sixth quarter. Clinics on Fridays at 11:30 A.M. during the sixth quarter are given to junior and senior students; junior students during their obstetric quarter spend two afternoons for five and one-half weeks in the otolaryngological dispensary. There are no formal otolaryngological ward rounds, but junior and senior students are assigned to patients during the surgical quarter, and group teaching on clinical cases is held at 10:30 A.M. each Wednesday during this quarter. Individual instruction is given the student by the various members of the Staff. Each quarter an elective course in ear, nose, and throat is given. This course includes anatomy; physiology; diseases of ear, nose, and throat; x-ray interpretation; and the use of diagnostic instruments.

Ophthalmological Division. During the sixth quarter second-year students receive instruction in elementary ophthalmology. During the senior pediatric quarter the students work in the ophthalmological clinic as assigned, and assist in the study and treatment of eye diseases. Especial emphasis is placed on the underlying medical and surgical conditions. Each student follows throughout his time in the clinic all patients assigned to him. For those who manifest an unusual interest in this specialty, provision will be made for more advanced work. Throughout the senior surgical quarter the students attend ophthalmological ward rounds for one hour each week, and during each academic year three clinics covering the more general neuro-ophthalmological and medical problems are given to all third- and fourth-year students.

Orthopaedic Division. In the sixth quarter an introductory course is given. During the surgical quarters the junior and senior students attend orthopaedic ward rounds at 9:30 A.M. on Mondays and attend fracture ward rounds at 9:30 A.M. on Fridays. Amphitheater clinics are held one quarter each nine months at 11:30 A.M. on Fridays for juniors and seniors. Students in their senior surgical quarter are assigned in rotation to the orthopaedic dispensary, which is held each afternoon from Monday to Friday, inclusive; these students attend general ward rounds with the orthopaedic staff at 9:30 A.M. on Wednesdays and may attend Journal Club meeting, x-ray conference, and general ward rounds with the Staff from 10:00 A.M. to 1:00 P.M. on Sundays. An elective course in the treatment of fractures is offered during the junior and senior surgical quarters. In this course the students get practical training in the reduction of fractures, the application of plaster of Paris casts, and in the

follow-up treatment of fractures. Elective courses in physical therapy and in the care of cerebral palsy patients are offered to the junior and senior students. The latter elective is given at 813 Fifth Street, where the Orthopaedic Division conducts a special clinic for the treatment of cerebral palsy. The clinic has a bed capacity of twelve and is staffed with a specially trained physiotherapist, a schoolteacher, and an administrative officer. The clinic is open at any time to interested students. Arrangements may be made for students who wish to do research or experimental work. Students are given the opportunity of attending the North Carolina Orthopaedic Hospital Clinic at Goldsboro the third Thursday of each month. They may also attend similar clinics held in Lumberton the first Friday of each month, in Elizabeth City the last Tuesday of each month, and in Tarboro the Monday before the last Tuesday of each month. By special arrangement with the curriculum committee senior students in the surgical quarter may by application do substitute intern work at the North Carolina Orthopaedic Hospital in Gastonia.

Urologic Division. In the sixth quarter, second-year students are given a course of lectures and practical demonstrations in urologic physical diagnosis in the normal individual student. Ward rounds on urologic patients are given every Saturday at 8:30 A.M., throughout the year, which junior students in their surgical quarter, and the senior surgical group are required to attend. During each quarter, small groups are selected from the senior surgical group of students and assigned in rotation to the urologic dispensary every afternoon. Here, under proper supervision, they study patients and give recommended treatment. During one and a third quarters of the year urologic clinics are given on Fridays at 11:30 A.M. for the junior and senior classes. These clinics deal with the affections of the male and female urinary tract and of the male genital tract. Clinics for urethroscopic and cystoscopic investigation and for the more technical methods of urologic diagnosis and treatment are held Monday, Wednesday, and Thursday from 1:30 to 5:00 P.M. and Tuesdays and Thursdays from 9:30 A.M. to 12:30 P.M. throughout the year. X-ray conferences on all urologic cases are held Tuesday, Thursday, and Saturday mornings from 8:30 to 9:30 and are followed by Staff rounds. Three senior students may select one of these cystoscopic clinics, x-ray conferences, and Staff rounds as an elective. *The Urologic Journal Club* meets each Monday from 4:30 to 6:30 P.M., and members of the Staff review their respectively assigned journals. Interested students are welcome.

Neurosurgical Division. Throughout the year at 11:30 A.M., on every third Tuesday, neurosurgical clinics are held for junior and senior students, at which the general principles of neurosurgical diagnosis and treatment are discussed. During all four quarters, weekly ward rounds are held at 8:30 A.M. on Fridays for the senior surgical group. Emphasis in these smaller clinics is placed upon the recognition of neurosurgical problems, followed by observation of the operative and post-operative procedures. Weekly x-ray and pathological conferences are held, and these may be attended by interested individuals.

Division of Plastic Surgery. Throughout the academic year, at 10:30 each Wednesday morning, a series of ward rounds is given to familiarize both third- and fourth-year students with the principles and practice of Plastic and Oral Surgery. These fundamental lectures are supplemented with Kodachrome movies, demonstrating single and multiple staged operative procedures. Pre- and postoperative patients are shown, and their reconstruction or cosmetic problems are discussed. Since most plastic surgical dressings require scrupulous sterile technique, a list of dressings is posted in the operating room each day. These daily dressing periods provide the student with an opportunity to observe the progress of his patient and at the same time to learn the technique of many types of dressings, purposeful splinting, etc., which are explained and demonstrated. They also provide an excellent opportunity to see many types of skin grafts: direct transfer grafts, delayed single and double pedicle flaps and tubes, etc., during the various stages of plastic reconstruction.

Each Tuesday and Thursday afternoon, an opportunity is afforded interested students to observe moulage and cast work, cosmetic restoration of color, the making of prosthetic appliances, etc. This work is done under the direction of Mr. Elon H. Clark and Mr. Orville A. Parkes, of the Department of Medical Illustration.

Dentistry. Second-year students, in the sixth quarter, are instructed in the principles of dentistry.

Radiology

The student teaching schedule in roentgenology consists of a course in roentgen diagnosis and a course in therapeutic radiology. The first is offered during each scholastic quarter on Tuesday and Thursday of each week. The fundamental physics of x-ray is discussed, with the chief emphasis being placed upon the anatomical, pathological and physiological bases for the interpretation of x-ray films. The course is conducted in seminar fashion and no formal lectures are given. The students are made to participate and lead discussions with the instructor serving as the moderator. The attempt is made to acquaint the student with the aids of roentgenology in diagnostic problems. The correct use of x-rays in diagnosis is stressed.

Therapeutic radiology is given one hour weekly during each scholastic quarter. At these sessions the general problem of treatment of benign, inflammatory and malignant lesions by x-ray and radium is discussed and the accepted views of the combination of these therapeutic agents with surgery is stressed. Representative cases are demonstrated and follow-up results are shown. The follow-up results are particularly stressed.

A limited number of senior students are permitted to attend routine film reading sessions in the department of radiology. They are also instructed in the fundamentals of fluoroscopic examinations or rather shown the many pitfalls of the inexperienced fluoroscopist.

A number of conferences with the resident house staff are conducted throughout the year. Each alternate Monday at 8:30 to 9:30 A.M. a session with the ear, nose and throat staff is held, during which the

roentgen and operative findings are correlated. Each Thursday from 8:30 to 9:30 A.M. a pediatric conference is held where current cases are discussed and clinical and x-ray findings are given. On alternate Wednesdays from 5:00 to 6:00 P.M. conferences are held with the surgical and medical house staffs and all cases with significant x-rays are presented for general discussion. The neurosurgical staff meets with members of the x-ray department every other Tuesday afternoon from 4:00 to 5:00 P.M. for a discussion of all cases that have been studied by the two departments.

Each Thursday afternoon the conference is held by the members of the x-ray staff and visiting radiologists. Difficult cases are brought up for discussion and diagnosis.

Obstetrics and Gynecology

Second-year students receive seventeen hours of instruction in the fundamentals of obstetrics and gynecology during their course in physical diagnosis in the sixth quarter. Clinics and demonstrations for junior and senior students are held on Saturdays at 10:30 A.M. during the Autumn, Winter, and Spring Quarters and on Mondays at 11:30 A.M. in the Summer Quarters. During one quarter of the *junior* year each group of students attends ward rounds at 8:30 A.M. on Mondays, Wednesdays, and Saturdays, preoperative conferences at 8:30 A.M. on Tuesdays and Fridays, and the Public Dispensary at 1:30 P.M. three times weekly, for eleven weeks. They also attend an endocrine clinic once a week for eleven weeks during the junior year. The students also spend part of each day on the wards. *Senior* students, during their surgical quarter, have ward rounds on obstetrics and gynecology on Saturdays at 8:30 A.M. Each *senior* student, during his senior surgical quarter, spends one week on the delivery floor.

Elective courses in the diagnosis and treatment of obstetric and gynecological conditions are offered for junior and senior students.

Pediatrics

Each *second-year* student receives nine hours of instruction in elementary pediatrics during the course in physical diagnosis in the sixth quarter. *Junior* and *senior* students, during their medical quarters, have pediatric ward rounds on Saturdays, from 8:30 to 9:30 A.M. The *senior* students are divided into three groups, each of which spends one quarter in pediatrics. During this quarter they are assigned daily as clinical clerks on the children's ward, nursery, and pediatric dispensary; attend ward rounds at 8:30 A.M. Wednesdays and Fridays and 9:30 A.M. on Mondays; are instructed in the practical nursing of infants by Miss Sherwood on Fridays at 9:30 A.M.; and are taught the preparation of diets for infants and children by the Professor of Dietetics. Each student attends infant feeding clinics on Fridays during this quarter. On Thursdays at 11:30 A.M., the junior and senior students attend demonstrations at which the preclinical basis, as well as the clinical aspects, of disease are emphasized. *Elective courses*: *senior* students may assist in

the treatment of pediatric patients in the syphilis clinic on Thursdays at 9:00 A.M., do research work, or assist in the pediatric ward or dispensary one or more mornings per week, according to the time at their disposal.

Legal Medicine and Toxicology

This course embraces a discussion of the relation of physicians to legal criminal procedures, jurisdiction of the coroner and medical examiner, laws governing the dead human body, personal identity of the living and the dead, the medicolegal autopsy, traumatic injuries and fractures, rape, abortion, asphyxial death, homicidal, suicidal, and industrial poisoning, alcoholism, the examination of blood, stains, fibers, and the detection of malingering. The course is open to junior and senior students and is given in alternate years. Discussions of medicolegal problems for the house staff and senior students, and joint conferences of the medical and law students also are held.

Preventive Medicine and Public Health

Public Health and Hygiene. A lecture course is given in the second year to acquaint the students with general environmental sanitation including sewage disposal, water supplies, milk and food for rural and urban communities. Vital statistics, public health regulations, and various official public health organizations also are discussed. Exercises in the epidemiology of several diseases are introduced to give the student a broad view of disease and its prevention. *Field Demonstrations.* Visits for observation and instruction are made to state, county, and city health departments, infant and school hygiene clinics, dairies, public water supplies, sewage disposal plants, and industrial establishments. Seminars are held in which the students discuss the various problems encountered in their field experience. *Preventive Medicine.* A series of lectures and exercises is given during the senior year to provide students with the preventive point of view in the practice of medicine. The problems of infant and maternal hygiene, occupational diseases, the deficiency states, and the etiology, transmission, epidemiology and prevention of communicable diseases are considered. Emphasis is placed upon the relationship of the private practitioner of medicine to the public health program. *A Laboratory Course* given in the fourth quarter by the Department of Bacteriology consists of the identification and virulence testing of diphtheria cultures; the isolation of stool, throat, and blood organisms; the practical examination of water; Schick, Dick, and tuberculin tests; and vaccination against typhoid-paratyphoid fever and smallpox. *Elective:* Through the co-operation of several city and county health officers, students may spend one or more weeks in observing and assisting in the operation of these public health units. Senior students may elect one month's Fellowship in Public Health in Michigan offered by the Kellogg Foundation, if they have permission from the head of the department of the quarter concerned and make up the time afterward.

CURRICULUM OF THE SCHOOL OF MEDICINE

The usual four medical school years of thirty-three weeks each have

been accelerated during the war into three calendar years of forty-eight weeks each.

Every effort is made to emphasize the close relationship of preclinical and clinical instruction. Members of the Clinical Staff assist in the teaching of preclinical subjects, and demonstrate to the students of the first two years, patients whose conditions illustrate the subjects being taught. Thus, from the student's first days, he is impressed with the interdependence of all branches of the medical science. In the junior and senior years, preclinical instructors assist the Clinical Staff in presenting the underlying basis of disease.

The free time in this curriculum may be spent in elective work or anything else the student wishes to do. No credits are given, but opportunity is provided for each student on his own initiative to obtain additional training which he may feel to be necessary or desirable. Elective courses have been organized for small groups, or the time may be utilized in independent work (including research) in any department, clinical or preclinical. Arrangements for taking such courses or doing other work are to be made through the Curriculum Committee.

It is hoped that many students will migrate to other medical schools for one or more quarters. Those who wish to do so, or to substitute a program different from that listed below, must obtain permission in advance from the Curriculum Committee.

CURRICULUM OF FOUR QUARTERS OF TWELVE WEEKS EACH

(The hours for these courses will be posted on the bulletin board.)

FIRST YEAR

FIRST SEMESTER:	HOURS
October 2, 1944 to February 10, 1945.	
Anatomy (including histology and neuroanatomy)	702
SECOND SEMESTER:	
February 19 to June 23, 1945.	
Physiology and Elementary Pharmacology	396
Biochemistry	279
Psychobiology	12
Free time	15

SECOND YEAR

SUMMER QUARTER (4th):	
July 2 to September 22, 1945.	
Pathology	216
Bacteriology and Parasitology	164
Free time	88
AUTUMN QUARTER (5th):	
October 1 to December 22, 1945.	
Pathology	200
Clinical microscopy	120
Public health and hygiene*	48
Free time	100
WINTER QUARTER (6th):	
January 2 to March 23, 1946.	
Physical diagnosis and introduction to clinical medicine	282
Advanced Pharmacology	72
Free time	114

* In 1944 these courses will be given during the Autumn quarter.

JUNIOR YEAR

SPRING QUARTER (7th) :†	
April 1 to June 22, 1946.	
Medicine (Junior)	468
SUMMER QUARTER (8th) :†	
July 1 to September 21, 1946.	
Surgery (Junior)	468
AUTUMN QUARTER (9th) :†	
September 30 to December 21, 1946.	
Obstetrics and Gynecology (Junior)	384
Neuropsychiatry	84

SENIOR YEAR

WINTER QUARTER (10th) :†	
January 2 to March 24, 1947.	
Medicine (Senior)	468
SPRING QUARTER (11th) :†	
April 1 to June 23, 1947.	
Surgery (Senior), including urology and orthopaedics	336
Obstetrics	132
SUMMER QUARTER (12th) :†	
July 1 to September 22, 1947.	
Pediatrics	209
Surgery	45
Final clinical examinations	24
Preventive medicine*	24
Neuropsychiatry	45
Free time	121

SUMMARY

Total number of hours in curriculum	5,616
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* In 1944 these courses will be given during the Autumn quarter.

† The clinical instruction is repeated each quarter in order to utilize all the clinical material and to have small groups of students. Consequently, students may vary the order of the seventh, eighth, and ninth quarters, and also the order of the tenth, eleventh, and twelfth quarters. The above schedule merely illustrates the program of one group.

FEES AND EXPENSES

All fees for each quarter are due and payable at the beginning of each quarter, and no student will be admitted to classes until these fees have been paid at the University Treasurer's Office. A fine of \$5.00 is charged for late registration. No credit will be given for any quarter in which the tuition of \$150 has not been paid at the Treasurer's Office, whether the work has been done here or elsewhere, except that students who have been permitted by the Curriculum Committee to spend a quarter at another medical school or hospital may subtract the amount of tuition paid at this other medical school or hospital from the \$150 due here for that quarter.

It is not advisable for a student to attempt outside work to defray his expenses; the results usually are disastrous to his health and academic standing.

Fees and Expenses

Tuition, per quarter	\$150	
Health Fee, per quarter	3.33	
Athletic Fee, admitting student to all athletic contests held on the University campus, during the quarter	5	
Room-rent, per quarter* (estimated)	50	
Board, per quarter (estimated)	95	
Laundry, per quarter (estimated)	10 to	20
Books, per quarter (estimated)	25 to	50
Commencement and Diploma Fees†		8
National Board of Medical Examiners Fees† \$25 (Part I), \$20 (Part II)		
Microscope, ophthalmoscope, otoscope, and other equipment, which are required of each student and which must conform to rigid standards, may be obtained on a rental basis from the University	25 to	35
Estimated total expenses, per month	135 to	150

ANGIER B. DUKE MEMORIAL AND OTHER LOAN FUNDS

The Angier B. Duke Memorial, Incorporated, administers through an advisory committee of the officers of the University a loan fund for students. In addition, the loan fund of the W. K. Kellogg Foundation is available for students who are not financially able to meet their expenses. Medical students, after their third quarter, who are ineligible for military service, may apply for loans from these sources. No scholarships are awarded in the School of Medicine. The loan funds are administered in accordance with the following regulations:

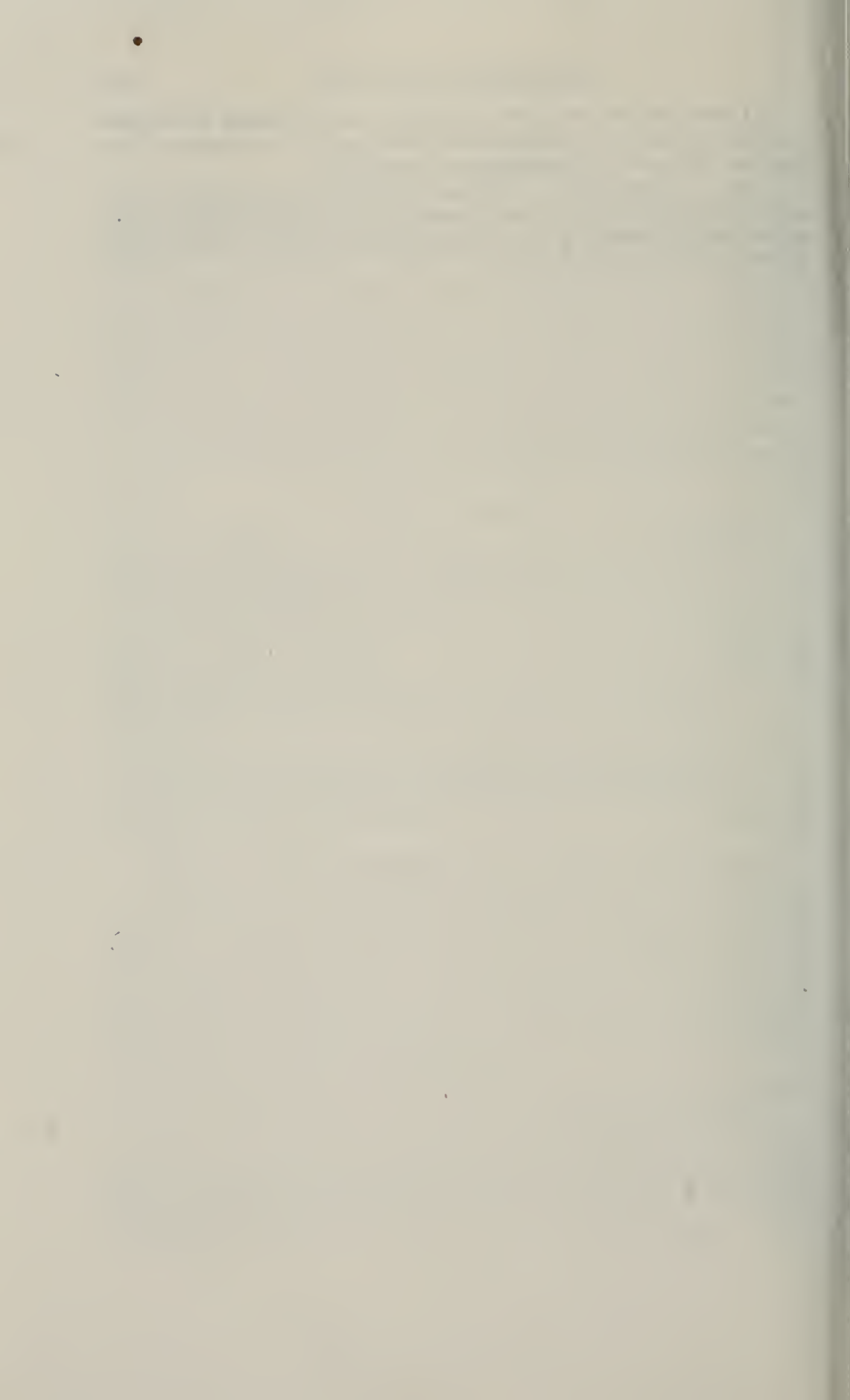
1. No loan will be made to a student who violates any of the regulations of the University or who is not doing outstanding classwork.

* Rooms may be reserved by medical students in Few Quadrangle. These rooms are provided with furniture, heat, electric light, and care of rooms; each student furnishes his own blankets, sheets, pillow-slips, towels, and pillows. Applications for rooms, accompanied by a reservation fee of \$25, should be made by writing to Mr. W. E. Whitford, Duke University, Durham, N. C.

† Payable at the beginning of the quarter in which a student is eligible for a degree or examination.

2. Loans will be made only to students who are taking full courses of study that lead to a degree, and all loans must be arranged not later than one week after the beginning of a quarter.

3. Every applicant for a loan must present with the application such security as the President of the University may approve, and no money will be advanced before a note with approved security is in the hands of the Treasurer of the University.



THE SCHOOL OF NURSING

MARGARET ISABEL PINKERTON, R.N., B.S.

Dean

1944-1945

ANNOUNCEMENTS FOR 1945-1946

Winter Quarter begins January 1, 1945, ends March 17;
Spring Quarter begins April 2, ends June 16; Autumn
Quarter begins October 1, ends December 22; Winter
Quarter begins December 31, ends March 16, 1946; Spring
Quarter begins March 25, ends June 8.

THE SCHOOL OF NURSING

GENERAL INFORMATION

The School of Nursing of Duke University was established in 1925 in connection with the School of Medicine of the University and Duke Hospital through the munificent gift of the late James B. Duke.

The plan of the School is to develop the ability of the nurse to make a maximum contribution to social welfare and progress, and to live an individually satisfying life, through the medium of the service which she renders to individuals, families, and communities in caring for the sick, in prevention of disease, and in conservation of health.

FACILITIES FOR INSTRUCTION

The facilities for instruction include the undergraduate colleges and graduate schools of the University, the School of Medicine, and Duke Hospital.

LIBRARIES

The reference library of books and periodicals of special interest to students majoring in nursing is located in the Nurses' Home Libraries. Students may use the general libraries on the East and West campuses and the Medical School Library.

RESIDENCIES

Students are housed in the fireproof residencies located near the Hospital. Rooms are adequately equipped with blankets and linen, making further provision by the student unnecessary.

HEALTH REGULATIONS AND PHYSICAL EDUCATION

The School has general supervision of the student's health. All physical defects, such as defective vision, dental needs, etc., must be corrected before admission to the School. The student must have been immunized against typhoid fever and vaccinated against smallpox during the current year. All students are required to pass a physical examination before examination being given at the end of the course.

ACTIVITIES OFFERED

Autumn Quarter (October to December): Swimming, horseback riding. (Required for first year students.)

REQUIREMENTS FOR ADMISSION AND SELECTION OF MATRICULANTS

As the profession of nursing requires women with high sense of integrity and responsibility, with culture and intelligence whose predominant interest is in service to the public, the Admissions Committee of the School considers carefully all credentials of applicants before selection of matriculants is made.

All applications for admission to the School should be made to the Director of the School of Nursing, who will furnish upon request the necessary forms which must be filed with the School before decision is made regarding the acceptability of the candidate.

A personal interview is required either at the school by appointment with a member of the faculty or with an alumna living in the vicinity of the applicant, for which arrangements will be made.

Applicants should be between eighteen and thirty years of age. Because of the need for large numbers of well-qualified nurses due to the war, exceptions to this general policy may be made. Young women who are $17\frac{1}{2}$ years of age may be considered for admission if they show maturity and submit other credentials which would indicate superior qualifications for nursing. Exceptions for those over thirty may be made also, if the candidate shows unusual abilities.

Applicants must submit evidence of personal suitability for nursing in relation to their physical health, emotional stability and general qualities of personality, culture and maturity.

Emphasis in selection of matriculants is placed upon the educational and scholastic qualifications of applicants. The minimum requirement is satisfactory graduation from an accredited high school or recognized preparatory school in which the following units of study have been taken:

English (4 years)	4 units
Foreign Language	2 units
Chemistry	1 unit
Biology, Physics or General Science	1 unit
History	1 unit
Mathematics	2 units
Electives	5 units
	<hr/>
	16 units

In addition, at least one semester of college chemistry and biology or zoology are required.

Preference in admission, however, is given to women who have had the opportunity of advanced study and experience, provided they meet all other requirements satisfactorily. As a result of this selective process, many students have received their bachelor's degree before admission to the School of Nursing and most of them have had one or more years' study beyond high school. Many have had valuable experiences as teachers, librarians, social workers and secretaries.

Because of the many applications to the School, it is important that those who desire admission submit their credentials promptly to

The Director of the School of Nursing,
Duke University School of Nursing,
Durham, N. C.

Duke University School of Nursing participates in the U. S. Nurse Cadet Corps program. Under this plan, students who pledge themselves

to continuing in nursing throughout the war, receive indoor and outdoor uniforms and a small monthly stipend. If a student enrolls on the first month of either her first, second, or third year in the School, she is eligible also for tuition without cost. Classes are admitted in October of each year.

REQUIREMENTS FOR THE B.S. IN NURSING

Upon completion of 60 semester hours of acceptable college work with an average of at least "C," a student is eligible for the B.S. in Nursing. Part of this academic requirement may be completed after the nursing course, if so desired.

FEEs

A yearly tuition fee of \$100 is required: (a fee of \$100 is charged for the Pre-Nursing course) the first year \$25 upon acceptance by the School, \$25 upon registration, and \$50 on September 29, 1945; the second and third years, \$50 twice yearly. Twenty-five dollars will be refunded to students who leave the School within one month of registration. There is no charge for room, board, laundry, and uniforms. Estimated additional expenses for the first year, including textbooks, are \$30; for the second, \$15; and for the third, \$15. There is a room key deposit of \$1.00; a publications fee of \$5.00; a fee of \$4.50 before admission for pre-entrance tests; \$5.00 for diploma; \$5.00 for degree; \$5.00 Commencement Fee; a cap and gown rental fee of \$1.25 payable on May 1, graduating year.

LOAN FUND AND SCHOLARSHIP

Through the generosity of the Kellogg Foundation, loan funds sufficient to cover tuition costs are available to students who demonstrate a real need and who are qualified. There are also a limited number of tuition scholarships for exceptionally qualified students.

READMISSION

Students who are absent for more than one month on account of illness or have leave of absence may be readmitted to the same or a succeeding class at the discretion of the Committee.

VACATIONS

Each year is divided into four quarters of three months each. First-year students have vacations of two weeks at Christmas and two weeks during the summer. Senior students have vacations of two weeks; Junior students, a month.

COURSES OF INSTRUCTION

This is a condensed description of courses. For a full description, see Bulletin of the School of Nursing.

Anatomy and Physiology.	DR. MARKEE, DR. HOLLINSHEAD, MISS POOLE
Bacteriology.	DR. CONANT
Chemistry.	DR. TAYLOR, MRS. ATWELL
Diet Therapy.	MRS. ELSIE MARTIN
First Aid.	RED CROSS INSTRUCTOR
Gynecology.	DR. BAYARD CARTER, ASSOCIATES, MRS. RUTH WILSON
History of Nursing.	MRS. ATWELL
Medical Nursing I.	PHYSICIAN LECTURERS, MISS BRYANT
Medical Nursing II and III.	PHYSICIAN LECTURERS, MISS BRYANT
Surgery I.	PHYSICIAN LECTURERS, MRS. HAMPTON
Surgery II.	PHYSICIAN LECTURERS, MRS. HAMPTON
Surgery III.	PHYSICIAN LECTURERS, MRS. HAMPTON
Nutrition and Cookery.	MRS. ELSIE MARTIN
Nursing Arts I.	MISS PINKERTON, MISS BURNHAM, ASSISTANTS
Nursing Arts II.	MISS BURNHAM, ASSISTANTS
Nursing Arts III.	MISS BURNHAM, ASSISTANTS
Obstetrics.	DR. BAYARD CARTER, MRS. RUTH WILSON, MISS HORTON
Operating Room Technique and Anesthesia.	MISS M. BATCHELDER, DR. MARTIN
Pediatrics.	PHYSICIAN LECTURERS, MISS M. SHERWOOD
Elementary Pharmacology.	MISS POOLE
Pharmacology.	MISS POOLE
Posture.	MISS KAISER
Physical Therapy.	MISS KAISER
Professional Adjustments II.	MISS PINKERTON AND SPECIALISTS
Psychiatric Nursing.	DR. CARROLL, MRS. RIDDLEBERGER
Psychology.	MRS. RIDDLEBERGER
Introduction to Public Health Nursing.	MISS R. HAY, MISS M. BLEE
Sociology of Nursing.	MRS. RIDDLEBERGER, MISS MCCracken

THE SCHOOL OF FORESTRY

CLARENCE F. KORSTIAN, B.S.F., M.F., M.A., Ph.D.
Dean

1944-1945
ANNOUNCEMENTS FOR 1945-1946

FORESTRY IN DUKE UNIVERSITY

GENERAL STATEMENT

Forestry in Duke University began early in 1931, when, through placing the Duke Forest under intensive management for forestry purposes, a substantial beginning was made in laying the foundations for educational work and research in forestry.

An academic-forestry curriculum, designed for students intent upon pursuing the study of forestry, particularly as a profession after graduation, was organized in Trinity College of Duke University in 1932. This four-year course of study provides only for instruction in fundamental and auxiliary subjects basic to a proper understanding of the highly specialized work in technical forestry. Duke University offers no professional degree in technical forestry available to undergraduates.

Training in technical forestry leading to the professional degrees, Master of Forestry and Doctor of Forestry, is offered in the School of Forestry, and is open to all graduates of the academic-forestry curriculum in Trinity College and to graduates of recognized scientific schools or colleges, universities, and professional schools of forestry.

Duke University is also prepared to offer, through the Graduate School of Arts and Sciences, graduate work in the more scientific aspects of forestry leading to the Master of Arts and Doctor of Philosophy degrees. This work is available to graduates of schools of forestry of recognized standing, and to college or university graduates holding the Bachelor's degree with their major work in appropriate scientific subjects. Undergraduate subjects which the college student, who does not have forestry training but who is contemplating work toward either degree in forestry, should take in preparation for this work may be illustrated as follows: at least two full years in botany, including general morphology or anatomy, the taxonomy, physiology, and ecology of plants; at least one course in zoology or general biology; courses in chemistry, physics, geology, economics, mathematics; and at least two years of French or German.

Several staff members of the Appalachian Forest Experiment Station are engaged in co-operative research projects in the Duke Forest. Specialists from this station and other prominent members of the U. S. Forest Service and representatives of forest and wood-using industries give occasional scheduled lectures at the School.

EDUCATIONAL FACILITIES

The School of Forestry is located partly in Few Quadrangle and partly in the Biology Building along with the Departments of Botany and Zoology. The administrative offices, two classrooms, and the forest mensuration and statistical laboratory are in Few Quadrangle, while other laboratories and offices and the School Library are in the Biology Build-

ing. The Biology Building contains, in addition to classrooms, laboratories, and offices, a library, three refrigerated rooms, an incineration room, a workshop, and eight dark-rooms. The School is provided with instruments and tools for use in both field and laboratory work in silvics, silviculture, and forest mensuration. Modern surveying instruments and accessory equipment are available for work in forest surveying.

Laboratories for work in wood anatomy and properties are provided with microtechnique and photomicrographic instruments, wood-working machinery, a Henderson dry kiln, and a 50,000-pound Olsen Universal timber-testing machine. A modern forest soils laboratory equipped for physical and chemical studies is available. In the field of seasoning and preservation of wood a commercial-sized, single-compartment dry kiln and a fully equipped experimental pressure treating cylinder are available for instruction and research.

* Facilities are also available for advanced work in plant physiology, plant anatomy, plant taxonomy, genetics, plant ecology, plant pathology, and the several branches of zoology. Many rooms in the Biology Building are equipped with vacuum, compressed air, direct and alternating electric current, gas, and running water.

The forestry section of the Library contains a growing collection of material on forestry, soils, and closely related subjects. It includes important books and periodicals in English and in French, German, and certain other foreign languages. The Library is well provided with American material, including Federal and State documents and reports. Over 150 periodicals and serials of importance in forestry and related fields are received by subscription or exchange.

Greenhouses, connected to the Biology Building through a soil-storage and work room, provide adequate space for experimental work.

A nursery has been established by the University for the joint use of the Sarah P. Duke Floral Garden, the Botany Department, and the School of Forestry. The forestry section of this nursery is used mainly for the growing of planting stock for the Arboretum and trees needed for research or other special purposes.

THE DUKE FOREST

The Duke Forest, located in Durham and Orange counties, North Carolina, consists of three main units; namely, the Durham, New Hope Creek, and Hillsboro divisions. Early in the development of Duke University it was recognized that the possession of such an area offered an unusual opportunity for the development of educational work in forestry.

Situated on the lower Piedmont plateau at elevations ranging from 280 to 650 feet, and composed of second-growth shortleaf and loblolly pines, oak, gum, hickory, maple, yellow poplar, ash, and other hardwoods, the Forest is representative of the various types of timber growth found throughout the region. Over a hundred different species of trees are found within or near the Forest. The land is rolling and there is relatively little rock outcrop, swamp, or other land of low productivity for

timber growing. The total area of the Forest proper, exclusive of the University campus, is over six thousand acres.

THE ARBORETUM

Of outstanding value in the teaching of both forestry and botany in the future is the provision for development of an arboretum. In their annual meeting on June 4, 1934, the Board of Trustees of Duke University, upon the recommendation of their Forestry Committee, voted to set aside permanently an area of over three hundred acres in the Forest to be used for arboretum purposes. The area lies adjacent to the main University campus immediately across the road from the Chapel.

Through the generosity of the late W. W. Flowers, of New York, a member of the Class of 1894 and a Trustee of the University, it has been possible to develop preliminary plans and to make a number of plantings. This is naturally a long-time project, and many years will elapse before the Arboretum will be most useful and most attractive. The University Trustees' Committee on Forestry in their report to the Board refers to the Arboretum as follows:

"The Arboretum should serve as a station for the study of trees and woody plants as individuals and in small groups in their scientific relations, economic properties, and cultural characteristics, requirements, and possibilities. It should render an economic service by acting as a research laboratory where trees and shrubs can be studied from the viewpoint of a fuller utilization of their commercial possibilities. It should render a cultural service by serving as a center where foresters, landscape architects, nurserymen, gardeners, and the general public may increase their knowledge of indigenous trees and shrubs and where they may become acquainted with the foreign species that can be grown here. Within the University the Arboretum will supply living specimens and material for several branches of botany and forestry."

The development of the Arboretum will proceed along these lines as rapidly as available funds and planting stock will permit.

FELLOWSHIPS, SCHOLARSHIPS, AND RESEARCH ASSISTANTSHIPS IN FORESTRY

A number of fellowships, scholarships, and research assistantships are available to men who offer promise of becoming leaders in the forestry profession. These will be awarded for high character and marked scholastic ability as judged by education, experience, and personal references.

Holders of the awards will pay tuition and such additional fees as are regularly required.

The awards are of three classes with stipends and special conditions as follows:

(1) Fellowships of \$400 and \$600 each. Each recipient must have previously completed work equivalent to that required at Duke University for a Master's degree with major in forestry or in a discipline basic to forestry. He will devote his entire time to an approved program of study

and research in any of the branches of forestry. He is expected to become a candidate for the degree of Doctor of Forestry or Doctor of Philosophy.

(2) Scholarships at \$250 each. Each recipient will normally devote his entire time to an approved program of study leading to the degree of Master of Forestry or Master of Arts with a major in forestry.

(3) Research assistantships of \$500 each. Each recipient will devote half-time to field, laboratory, or other work of the research program of the School of Forestry. He will be permitted to enroll for not more than 20 semester hours in a school year on a program of study, or study and research, leading to the degree of Master of Forestry, Master of Arts, Doctor of Forestry, or Doctor of Philosophy.

The following arrangements are common to all fellowships, scholarships and research assistantships in forestry:

(1) Each applicant must have received a Bachelor's degree from an acceptable professional school of forestry or must be a graduate of a recognized college or university. If an applicant is not a graduate of a school of forestry, he must have had major work in botany or soil science and in the allied basic sciences. Each applicant must show reasonably high scholarship. Preference will be given to men who have already obtained technical or professional training in forestry.

(2) It is highly desirable that each applicant state as specifically as possible the field in which he wishes to study. The definite selection of a major field of work—one that is specific in purpose and involves training both in fundamentals and in technique—is very helpful to the Committee on Awards.

(3) Application blanks for fellowships, scholarships, and research assistantships may be obtained by writing to the Dean of the School of Forestry, Duke University, Durham, North Carolina. When the blank has been filled out by the applicant, it should be returned to the above address, and an *official transcript of record* showing college or university credits must accompany it or be forwarded promptly. The application and transcript must be filed not later than March 1 for consideration for the following academic year. In case vacancies occur, applications submitted on a later date may be considered.

REQUIREMENTS FOR ADMISSION TO THE SCHOOL OF FORESTRY

The following general requirements of the School of Forestry apply to candidates for the Master of Forestry degree:

Admission to the School of Forestry presupposes that the applicant is either a graduate of a scientific school, college, or university of high standing, but without professional training in forestry; or that he is a graduate of a professional school of forestry of recognized standing. He will present not less than four years of credit of collegiate grade, with at least as many quality points as hours.¹

¹ Grades for each hour of college credit and also for credit earned in the School of Forestry are valued in quality points as follows: "A," 3 points; "B," 2 points; "C," 1 point; "D," no points; and "F," no credit and —1 point.

An applicant with no professional training in forestry will present a certified transcript of his academic record showing that he has had conferred upon him a degree in arts, science, or engineering; and that he has satisfactorily completed undergraduate work in minimum amount as follows:

One year of botany, including the morphology, physiology, and identification of plants.

One year each of English and of chemistry.

One course each in physics and in the principles of economics.

Mathematics, through college algebra and trigonometry.

It is urged that an applicant without professional training in forestry present additional credits in the above subjects and in one or more of the following subjects: soils, geology, mineralogy, petrology, climatology, surveying, languages (particularly German and French), sociology, political science, philosophy, psychology, and zoology.

An applicant who is a graduate of a professional school of forestry of recognized standing will present a certified transcript of scholastic record showing the award of a degree. Before registering for the first semester of residence, such applicants will be required to select the branch or branches of forestry in which they wish to concentrate the major part of their work and to prepare their proposed programs in conference with the appropriate faculty adviser.

Students must make application for admission in advance of the opening of the school year. Those students entering without acceptable courses in plane surveying, forest surveying, and forest mensuration must take the twelve weeks of work in these subjects in the Summer Session, and are required to submit their applications prior to May 1. Students entering with advanced standing in surveying and forest mensuration should make application before September 1. Application blanks will be sent upon request made to the Dean of the School of Forestry.

REQUIREMENTS FOR THE DEGREE OF MASTER OF FORESTRY

The degree of Master of Forestry (M.F.) is conferred upon students who have satisfactorily completed two years of study in technical forestry and one term of twelve weeks' work in plane surveying, forest surveying, and forest mensuration in the Summer Session. In addition to the summer school work a total of not less than sixty semester hours' credit is required for the M.F. degree, of which at least fifty-five shall be obtained in the School of Forestry. Each student must obtain at least as many quality points as semester hours' credit under the quality-point system described in footnote 1 of the preceding section.

A two weeks' field trip to typical timber-harvesting, manufacturing, and other forestry operations in the South is conducted by the School and is required as a part of the work in Forest Products Industries (Forestry 212). Other students in the School of Forestry may be permitted

to take this trip as opportunities will be available for special work and observations in other branches of forestry in forest types not represented in the Duke Forest. One semester hour of credit may be earned for participation in the field trip by registering for it in Forestry 212A.

No student may take less than fifteen or more than eighteen hours in any one semester without special permission of the School of Forestry Faculty. The following work will ordinarily be required of all candidates for the M.F. degree:

SUMMER SESSION

	S.H.
Plane Surveying (C. E. S110)	3
Forest Surveying (F. S150)	5
Forest Mensuration (F. S151)	4

FIRST YEAR

<i>First Semester</i>	S.H.	<i>Second Semester</i>	S.H.
Harvesting Forest Products (F. 211)	3	Forest Products Industries (F. 212)	3
Forest Entomology (F. 231)	3	Forest Pathology (F. 224)	4
Sampling Methods (F. 251)	2	Silvics (F. 264)	3
Dendrology (F. 253)	3	Electives	
Wood Anatomy & Properties (F. 259)	3		
Forest Soils (F. 261)	3		

SECOND YEAR

Silviculture (F. 265)	5	Forest Valuation (F. 282)	3
Forest Economics (F. 279)	3	Seminar (F. 292)	1
Forest Management (F. 281)	4	Thesis	
Thesis		Electives	
Electives			

These are the normal requirements for the Master of Forestry degree, but for the duration of the war a student, upon the recommendation of his adviser and approval by the Faculty, may substitute other available work for such required courses as are not offered while the student is in residence.

Each candidate is required to file in the office of the Dean of the School of Forestry on or before May 1 three copies of a thesis, type-written and bound in accordance with regulations set forth by the Faculty. The thesis shall be based upon an original study made in the field, laboratory, or library.

Work of equivalent grade done in residence at recognized schools of forestry may, with the approval of the Faculty, be accepted as credit toward the M.F. degree. A minimum of one year's residence is required at Duke University. Students who have had satisfactory undergraduate training in forestry may, with the approval of the Faculty, elect to devote the major portion of their time to research under the supervision of one or more members of the Faculty and prepare a more comprehensive thesis than is required of students entering the School without previous work in forestry. Students in the School of Forestry may take in allied de-

partments of the University as electives certain courses approved by the Faculty.

REQUIREMENTS FOR THE DEGREE OF DOCTOR OF FORESTRY

THE DEGREE

The degree of Doctor of Forestry is a research degree. It is based primarily upon evidence of high attainments in a special field of forestry knowledge and upon the production of a thesis embodying the results of original research. It is not based merely upon the completion of a prescribed period of study or upon the obtaining of credit for a given number of courses.

A student who plans to enter upon a program of work leading to the degree of Doctor of Forestry should consult or enter into correspondence with the Dean of the School of Forestry. He will then be advised as to the possibility of obtaining the necessary instruction and supervision of research in the special field desired.

RESIDENCE

The normal period of resident graduate study, following satisfaction of the general requirements for admission to the Duke School of Forestry, is a minimum of two academic years after the student has obtained the graduate professional degree of Master of Forestry, or its equivalent. At least one of these two years of graduate study must be spent in actual residence at Duke University. With the approval of the Faculty of the School of Forestry work of equal grade done in residence at another college or university, or at a research station or institute not connected with a college or university, may be accepted toward a Doctor of Forestry degree. Only in connection with the preparation of the thesis will work be accepted that has been done elsewhere than in residence at a college, university, research station, or institute. A student whose undergraduate work is insufficient in amount or unsatisfactory in character may be required to spend additional time in preliminary courses essential as a basis for the graduate work he proposes to undertake.

Students whose research is concerned with the study of trees and forest stands in the Duke Forest during the growing season may find it necessary to be at the University during the summer.

Credit for one year of work done in regular terms of the Summer Session at Duke University may be given with the approval of the School of Forestry Faculty. Except in unusual cases, graduate work of fragmentary character taken over a long period of years, or work completed many years before the student becomes a candidate for the degree at Duke University, will not be accepted as satisfying the requirements of residence.

APPLICATION FOR CANDIDACY

No student will be admitted as a candidate for the degree of Doctor of Forestry until he has obtained the professional graduate degree of

Master of Forestry or its equivalent, either at Duke University or at a professional school of forestry of recognized standing. A student desiring to become a candidate for the Doctor of Forestry degree is ordinarily required to file with the Dean of the School of Forestry, at the beginning. A committee of the Faculty will then be appointed to supervise the student's work, with the professor in charge of his research as chairman. If and when the committee finds that the preliminary requirements of the major field have been satisfied, the chairman of the committee will report the fact in writing to the Dean of the School of Forestry. In the case of students who come to Duke University for only the last year of graduate work, and in special cases approved by the School of Forestry Faculty, the application for recognition as a candidate for the Doctor of Forestry degree may be filed later than provided above, but not later than October 15 of the academic year in which it is desired that the degree be conferred.

PROGRAM OF STUDY

The program of study of a candidate for the Doctor of Forestry degree will be arranged after consultation with the committee provided for in the preceding section and is subject to the approval of the Dean and Faculty of the School of Forestry. The student must select a major field and one or two minor related fields. Both major and minor may be selected in different branches of forestry or the minor may be taken in a related field in some other school or department of Duke University.

FOREIGN LANGUAGES

A reading knowledge of two foreign languages is required. One language shall be either French or German, and the other optional to fit the requirements of the student's problem. No student may come up for his preliminary examination before having satisfied the language requirements for the Doctor's degree. Foreign language examinations are conducted by the appropriate language department or, in special cases, by a qualified member of the Faculty of Duke University.

PRELIMINARY EXAMINATION

Toward the end of the first full year of graduate work for the Doctor of Forestry degree (or in special cases early in the second year), a preliminary examination of each candidate will ordinarily be held covering the general field of his studies. This examination will be conducted by the committee in charge of the student's work and will be written. A student who passes the examination will be recognized as a candidate for the Doctor of Forestry degree. A student's major and minor subjects will ordinarily be included in this preliminary examination.

If a student fails on his first examination, he may make a second attempt after six months upon recommendation of his committee and the approval of the Dean of the School of Forestry. Two failures on this examination make the student ineligible to continue work toward the Doctor of Forestry degree at Duke University.

THESIS

The thesis for the Doctor of Forestry degree must be a contribution

to knowledge. The subject of the thesis must be filed with the Dean of the School of Forestry on or before October 15 of the academic year in which the candidate desires to take the final examination for his degree. The subject must receive the written approval of the professor under whom the thesis is being written and of the Dean of the School of Forestry. The thesis must be completed to the satisfaction of the major professor. Four typewritten copies in approved form must be deposited with the Dean of the School of Forestry on or before April 15 if the student desires to be examined on the thesis in the same academic year. The title page must be approved by the Dean of the School of Forestry. Two of the copies, the original and a carbon copy, are placed in the School of Forestry library, one copy goes to the major adviser, and one is returned to the student.

The candidate's thesis must be published either in its original form or in a modified form approved by the Dean of the School of Forestry and the committee in charge of the candidate's work. In its published form the title page should include this statement: "A Thesis Submitted in Partial Fulfillment of the Requirements for the Degree of Doctor of Forestry in the School of Forestry of Duke University." Ten copies of the published thesis should be deposited in the office of the Dean of the School of Forestry within a reasonable time after publication. The degree will not be conferred until publication of the thesis, in approved form, within three years has been guaranteed in a way satisfactory to the Dean of the School of Forestry and the professor under whom the thesis was written.

FINAL EXAMINATION

The final examination will be on the thesis and on related subject matter and will be oral. Approximately one year must elapse between the dates of the preliminary examination and the final examination, except in special cases approved by the School of Forestry Faculty. Two failures on this examination make a student ineligible to continue work toward the Doctor of Forestry degree at Duke University. The second examination may be given only upon the recommendation of the professor in charge of the thesis and the approval of the Dean of the School of Forestry.

GRADING

Members of the Faculty are expected to report grades of graduate students to the School of Forestry Office not later than February 15 for the first semester and not later than June 15 for the second semester on the cards provided for that purpose. An average grade of "B" or better will be required for all work, beyond that for the degree of Master of Forestry, that is to be credited toward the Doctor of Forestry degree. A mark of "Incomplete" may be given when a student has failed, for an acceptable reason, to complete some portion of the required work in which his standing is generally satisfactory. Unless a report is made within one year that the work has been satisfactorily completed, all credit will be lost.

FORESTRY IN THE GRADUATE SCHOOL

Graduate work toward the Master of Arts and Doctor of Philosophy degrees in the more scientific branches of forestry is available to adequately prepared students at Duke University. This work is given through the Division of Forestry of the Graduate School of Arts and Sciences by certain members of the School of Forestry Faculty.

The following special conditions will influence the acceptance of students for graduate study in forestry: The student must have received a degree from a professional school of forestry of recognized standing or from an approved college or university. Graduates of professional schools of forestry must also have had adequate training in liberal arts and sciences, approximating 86 semester hours, before being admitted to candidacy for the Master of Arts or Doctor of Philosophy degrees. College graduates who have had specialized training in botany or soil science and in allied basic subjects, such as physics, chemistry, geology, and zoology, may pursue graduate study and research only in the specialized fields for which their previous work has qualified them.

The Forestry Staff will determine whether a student is qualified to pursue graduate study in any of the special fields of forestry in which work is available.

The Master of Arts and Doctor of Philosophy degrees are attained through scientific work rather than technical or professional training in forestry. Work for these degrees may be pursued only in forest-tree physiology, wood anatomy and properties, forest pathology, forest entomology, silvics, forest soils, forest mensuration, forest management, and forest economics, except that a major cannot be taken in forest management. A student upon registration chooses a field of study which may lie in two or more departments. The members of the Graduate School Faculty best qualified in that field are named as the student's advisory committee, regardless of the department of which they are members. This committee will advise the student in the planning and conduct of his work and will evaluate it when completed.

A reading knowledge of French and German must be acquired early in the course of graduate study in forestry because much of the forestry literature of the world is written in or has summaries in these languages. For the Ph.D. degree the language requirement must be met before the preliminary examination is taken and usually before the preparation of the thesis is begun.

The length of time required for a student to obtain the Master of Arts and Doctor of Philosophy degrees in forestry is determined by the character of his previous work and by the quality of his work in the Graduate School. Upon the recommendation of the Forestry Staff and with the approval of the Council on Graduate Instruction, work of equal grade done in residence at another college or university, or at a research

station or institute not connected with a college or university, may be accepted toward a Ph.D. degree, but at least the last year or the first two years of graduate study must be spent in actual residence at Duke University. Only in connection with the preparation of the thesis will work be accepted that has been done elsewhere than in residence at a college, university, or research station.

Students whose research is concerned with the study of trees and forest stands in the Duke Forest during the growing season may find it necessary to be at the University during the summer.

The field of study may include advanced work in allied subjects as well as advanced work in forestry. The student should have covered, however, most of the basic subjects prior to entering the Graduate School. The required advanced work will depend upon the student's previous training and the special field of study selected. Before beginning his work a student must obtain approval of his proposed program of study, including the plans for the research for his thesis. Courses of study must be correlated with each other and with the thesis research.

For further information on requirements for admission to the Graduate School of Arts and Sciences and on the general requirements for the Master of Arts and Doctor of Philosophy degrees reference should be made to the *Bulletin of the Graduate School of Arts and Sciences*.

COURSES AND SUBJECTS OF INSTRUCTION

This is a condensed description of courses. For a full description, see Bulletin of the School of Forestry.

IN THE SUMMER SESSION

C.E. S110. Plane Surveying.—3 s.h.

[Not offered summer 1945] PROFESSORS BIRD AND W. H. HALL; ASSISTANT
PROFESSOR WILLIAMS

S150. Forest Surveying.—Prerequisites: Civil Engineering, S110, plane surveying, or equivalent. 5 s.h.
[Not offered summer 1945] PROFESSOR MAUGHAN

S151. Forest Mensuration.—4 s.h. PROFESSOR SCHUMACHER

FOR SENIORS AND GRADUATES

211. Harvesting Forest Products.—3 s.h. PROFESSOR WACKERMAN

212. Forest Products Industries.—3 s.h. PROFESSOR WACKERMAN

213. Seasoning and Preservation of Wood.—3 s.h.
PROFESSOR WACKERMAN

214. Marketing Forest Products.—Prerequisites: Forestry 211 and 212, or equivalents. 3 s.h.
PROFESSOR WACKERMAN

224. Forest Pathology.—Prerequisites: Botany 1 and 2, and Forestry 253, or equivalents. 4 s.h.
PROFESSOR WOLF

231. Forest Entomology.—3 s.h. PROFESSOR BEAL

236. Forest Game Management.—3 s.h. PROFESSOR BEAL

251. Sampling Methods in Forestry.—Prerequisite: Forestry S151. 2 s.h.
PROFESSOR SCHUMACHER

252. Forest Mensuration.—Prerequisite: Forestry 251. 2 s.h.
PROFESSOR SCHUMACHER

253. Dendrology.—Prerequisite: one year of botany. 3 s.h.
PROFESSOR BEAL

256. Wood Pulp and Pulp Products.—Prerequisites: Forestry 212 and 259, or equivalents. 3 s.h.
PROFESSOR HARRAR

257. Design of Forestry Experiments and Analysis of Data.—5 s.h.
PROFESSOR SCHUMACHER

259. Wood Anatomy and Properties.—Prerequisites: one year of botany and Chemistry 1 and 2, or equivalents. 3 s.h.
PROFESSOR HARRAR

260. Timber Mechanics.—Prerequisites: Physics 1 and Forestry 259, or equivalents. 3 s.h.
PROFESSOR HARRAR

261. Forest Soils.—Prerequisites: Chemistry 1 and 2, and Physics 1, or equivalents; physical geology and analytical chemistry are also desirable. 3 s.h.

[Not offered 1945-46] ASSOCIATE PROFESSOR COILE

264. Silvics.—Desirable prerequisites: plant physiology, plant ecology, and Forestry 253 and 261, or equivalents. 3 s.h. PROFESSOR KORSTIAN

265. Theory and Practice of Silviculture.—Prerequisite: Forestry 264 or equivalent. 5 s.h. PROFESSOR KORSTIAN

266. Forest Seeding and Planting.—2 s.h. PROFESSOR KORSTIAN

273. Forest Protection.—2 s.h. ASSOCIATE PROFESSOR THOMSON
[Not offered 1945-46]

276. Forestry Policy.—2 s.h. ASSOCIATE PROFESSOR THOMSON
[Not offered 1945-46]

279. Economics of Forestry.—Prerequisite: at least one course in the principles of economics. 3 s.h. PROFESSOR WACKERMAN

281. Forest Management.—Prerequisites: Forestry S150, S151, and 251, or equivalent. 3 s.h. PROFESSOR MAUGHAN

282. Forest Valuation.—Prerequisite: Forestry 281 or equivalent. 3 s.h. PROFESSOR MAUGHAN

292. Seminar.—1 s.h. THE STAFF

211A to 282A. Special Studies in Forestry.—Credits and hours to be arranged. THE STAFF

FOR GRADUATES

301-302. Advanced Studies in Forestry.—Credits to be arranged.

a. Silvics.—Prerequisites: Forestry 253, 261, and 264, or equivalents. PROFESSOR KORSTIAN

b. Forest Soils.—Prerequisite: Forestry 261 or equivalent. ASSOCIATE PROFESSOR COILE
[Not offered 1945-46]

c. Silviculture.—Prerequisite: Forestry 265 or equivalent. PROFESSOR KORSTIAN

d. Forest Management.—Prerequisite: Forestry 281 or equivalent. PROFESSOR MAUGHAN

e. Forest Economics.—Prerequisite: Forestry 279 or equivalent. ASSOCIATE PROFESSOR THOMSON
[Not offered 1945-46]

f. Wood Anatomy and Properties.—Prerequisites: Forestry 259 and 260, or equivalents. PROFESSOR HARRAR

g. Forest Mensuration.—Prerequisites: Forestry S151, 251, and 252, or equivalents. PROFESSOR SCHUMACHER

h. Forest Entomology.—Prerequisite: Forestry 231 or equivalent. PROFESSOR BEAL

i. Forest Utilization.—Prerequisites: Forestry 211 and 212, or equivalents. PROFESSOR WACKERMAN

j. Dendrology.—Prerequisite: Forestry 253 or equivalent. PROFESSOR HARRAR

311. **Advanced Forest Utilization.**—Prerequisite: Forestry 211 or equivalent. 2 s.h.
PROFESSOR WACKERMAN

323-324. **Advanced Forest Pathology.**—Prerequisites: plant physiology and forest pathology. Credits to be arranged.
PROFESSOR WOLF

351-352. **Advanced Physiology of Forest Trees.**—Prerequisites: plant physiology and plant ecology or silvics. Credits to be arranged.
PROFESSOR KRAMER

354. **Forest Soil Fertility.**—Prerequisites: Forestry 251 and 261, and plant physiology, or equivalents; bacteriology and analytical and organic chemistry are desirable. 3 s.h.
ASSOCIATE PROFESSOR COILE

[Not offered 1945-46]

356. **Economic Forces in Forestry.**—Prerequisites: Forestry 279 and 282, or equivalents; courses in economic theory are desirable. 2 s.h.
ASSOCIATE PROFESSOR THOMSON

[Not offered 1945-46]

357-358. **Research in Forestry.**—Credits to be arranged. THE STAFF

FEES AND EXPENSES

The following tables show the general fees and charges collected from all students and the special fees collected from those taking laboratory courses. All fees for each semester are due and payable, unless otherwise specified, at the time of registration at the beginning of that semester, and no student is admitted to classes until arrangements have been made with the Treasurer of the University for the settlement of fees.

GENERAL FEES

Matriculation, per semester	\$ 25.00
Tuition, per semester	100.00
Room-rent—see the detailed statement that follows.	
Athletic Fee, admitting students to all athletic contests held on the University grounds, per semester	5.00
Damage Fee, payable annually at the time of first registration	1.00
Medical Fee, per semester	5.00
Library Fee, per semester	5.00
Commencement Fee, payable once by graduate students in the last semester before a degree is conferred	3.00
Diploma Fee, payable by candidates for degrees, at the beginning of the second semester, refunded if the diploma is not awarded	5.00

For further information concerning room-rent, see below.

SPECIAL FEES

Graduate students in the sciences are required to pay the special laboratory fees for courses as fixed by the various departments. An administrative fee is charged in connection with special research in the summer under direction of a member of the Faculty. Special laboratory and materials fees in forestry are as follows:

Forestry 224, 253, 359, 260, 264, 301a, 302a, and 357a, and 358a	\$2.50
Forestry 261, 351-352, 354, 301b, 301f, 302b, 302f, 357b, 357f, 358b, and 358f	\$2.50 to \$5.00.

TRANSCRIPTS

A student desiring to transfer from Duke University to another institution is entitled to one transcript of his record. A charge of one dollar is made for each additional copy.

PAYMENTS TO FELLOWS AND SCHOLARS

Payments by the University of stipends to fellows, research assistants, and scholars are made in four installments, on November 25, January 25, March 25, and May 25.* Fellows and scholars are required to pay the regular tuition fee and such additional fees as are ordinarily required of graduate students.

* This date of payment will be adjusted to accord with the advancement in the date of Commencement.

THE SUMMER SESSION

HOLLAND HOLTON, A.B., J.D.

Director

1945

First Term: June 19 to July 30

Second Term: July 31 to September 8

(Special Announcement of Courses Offered May 29-June 18)

FACULTY OF THE SUMMER SESSION

- BLOMQUIST, HUGO LEANDER; B.S., University of Chicago; Pasteur Institute, 1919; Ph.D., University of Chicago; BOTANY (Duke University).
- BREWSTER, LAWRENCE FAY; A.B., College of William and Mary; A.M., Columbia; Ph.D., Duke; HISTORY (Duke University).
- BROWNELL, WILLIAM ARTHUR; A.B., Allegheny College; A.M., Ph.D., University of Chicago; LL.D., Allegheny College; EDUCATIONAL PSYCHOLOGY (Duke University).
- CANNON, JAMES, III; A.B., Duke; A.M., Princeton; Th.B., Th.M., Princeton Theological Seminary; Edinburgh University, 1919; Garrett, 1924; D.D., Birmingham-Southern College; RELIGION (Duke University).
- CARLITZ, LEONARD; A.B., A.M., Ph.D., University of Pennsylvania; MATHEMATICS (Duke University).
- CARR, JOHN WINDER, JR.; A.B., Duke; A.M., Ph.D., Columbia; EDUCATION (Duke University).
- CASTELLANO, HELEN KENNARD; A.B., Brown University; A.M., Middlebury College; SPANISH (Vanderbilt University).
- CASTELLANO, JUAN RODRÍGUEZ; B.A., Instituto Cardinal Cisneros, Madrid; Licenciado en Filosofía y Letras, Doctor en Filosofía, University of Madrid; SPANISH (Vanderbilt University).
- CHILDS, BENJAMIN GUY; A.B., A.M., University of Virginia; University of Virginia, 1921-22; EDUCATION (Duke University).
- COLE, ROBERT TAYLOR; A.B., University of Texas; A.M., Ph.D., Harvard; Université de Grenoble, 1928; Sorbonne, 1933; POLITICAL SCIENCE (Duke University).
- CUSHMAN, ROBERT E.; A.B., Wesleyan University; B.D., Ph.D., Yale; RELIGION (Duke University).
- DAVIS, GIFFORD; A.B., Bowdoin College; A.M., Ph.D., Harvard; SPANISH (Duke University).
- DE GUERRA, ISABEL M.; B.S., Instituto de Segunda Enseñanza de la Habana; Ed.D., Ph.D., Universidad de la Habana; SPANISH (Instituto de Segunda Enseñanza de la Habana).
- DILLINGHAM, MARJORIE CARTER; A.B., Florida State College for Women; Universidad Nacional de México, 1939; A.M., Duke; SPANISH (Duke University).
- DILLINGHAM, WILLIAM P.; B.A.E., University of Florida; M.S., University of Tennessee; Duke, 1944-45; ECONOMICS (Duke University).
- GERGEN, JOHN JAY; A.B., A.M., University of Minnesota; Ph.D., Rice Institute; MATHEMATICS (Duke University).
- GILBERT, ALLAN H.; B.A., Cornell; A.M., Yale; Ph.D., Cornell; ENGLISH (Duke University).
- GOLDTHORPE, J. HAROLD; A.B., Hamline University; A.M., Ph.D., University of Minnesota; EDUCATION (Research Staff, American Council on Education).

- GRAY, IRVING EMERY; B.S., Massachusetts State College; M.S., Ph.D., University of Wisconsin; ZOOLOGY (Duke University).
- GWYNN, PRICE HENDERSON, JR.; A.B., A.M., University of North Carolina; B.D., Yale Divinity School; Ph.D., Yale; EDUCATION (Davidson College).
- HART, HORNELL NORRIS; A.B., Oberlin College; A.M., University of Wisconsin; Ph.D., University of Iowa; SOCIOLOGY (Duke University).
- HATLEY, CHARLES CLEVELAND; A.B., Duke; A.M., Ph.D., Columbia; PHYSICS (Duke University).
- HIGHSMITH, JOHN HENRY; A.B., A.M., Duke; Columbia, 1904-06; LL.D., Catawba College; D.Ed., Wake Forest College; PUBLIC SCHOOL ADMINISTRATION (Director of Instructional Service, North Carolina State Department of Public Instruction).
- HILLMAN, JAMES ELGAN; B.Ped., Berea College; B.S., A.M., Ph.D., George Peabody College; EDUCATION (Director of Professional Service, North Carolina State Department of Public Instruction).
- HORNE, HERMAN L.; A.B., Bridgewater College; A.M., Duke; Duke, 1944-45; POLITICAL SCIENCE (Duke University).
- HUMM, HAROLD JUDSON; B.S., University of Miami; A.M., Duke; Duke, 1943-45; ZOOLOGY (Resident Director at Marine Station at Beaufort).
- JEFFERS, KATHERINE R.; A.B., A.M., University of Missouri; Ph.D., Bryn Mawr College; ZOOLOGY (Duke University).
- JENSEN, HOWARD EIKENBERRY; A.B., A.M., University of Kansas; B.D., Ph.D., University of Chicago; SOCIOLOGY (Duke University).
- LANNING, JOHN TATE; A.B., Duke; A.M., University of California; Ph.D., University of California; HISTORY (Duke University).
- LEMERT, BEN FRANKLIN; B.S., A.M., Ohio State University; Ph.D., Columbia; ECONOMICS (Duke University).
- LUNDEBERG, OLAV K.; A.B., St. Olaf College; A.M., Ph.D., University of Minnesota; Université de Montpellier, 1918; Centro de Estudios Históricos, Madrid, 1929; SPANISH (Duke University).
- OOSTING, HENRY JOHN; A.B., Hope College; M.S., Michigan State College; Ph.D., University of Minnesota; BOTANY (Duke University).
- PATTON, LEWIS; A.B., Furman University; Ph.D., Yale; ENGLISH (Duke University).
- PETRY, RAY C.; A.B., Manchester College; A.M., Ph.D., University of Chicago; RELIGION (Duke University).
- POTEAU, MARY; A.B., Woman's College of the University of North Carolina; A.M., Columbia; Ph.D., Duke; ENGLISH (Duke University).
- PROCTOR, ARTHUR MARCUS; A.B., Duke; A.M., Ph.D., Columbia; EDUCATION (Duke University).
- RANKIN, WILLIAM WALTER; B.E., North Carolina State College of Agriculture and Engineering; A.M., University of North Carolina; Harvard, 1914-15; Columbia, 1919-21; MATHEMATICS (Duke University).
- RATCHFORD, BENJAMIN ULYSSES; B.S., Davidson College; A.M., Ph.D., Duke; ECONOMICS (Duke University).

- ROSE, JESSE LEE; A.B., College of Charleston; A.M., Ph.D., Duke; GREEK LITERATURE (Duke University).
- ROWE, GILBERT THEODORE; A.B., Duke; S.T.D., Temple University; D.D., Litt.D., Duke; RELIGION (Duke University).
- RUSSELL, HARRY J.; A.B., Brigham Young University; A.M., Ph.D., Ohio State University; SPANISH (Miami University).
- SCATES, DOUGLAS EDGAR; A.B., Whitworth College; Ph.D., University of Chicago; EDUCATION (Duke University).
- SMITH, HILRIE SHELTON; A.B., Elon College; Ph.D., Yale; D.D., Defiance College; Litt.D., Elon College; RELIGION (Duke University).
- SPENCE, HERSEY EVERETT; A.B., A.M., B.D., Duke; D.D., Asbury College; Litt.D., High Point College; RELIGION (Duke University).
- STINESPRING, WILLIAM FRANKLIN; B.A., M.A., University of Virginia; Ph.D., Yale; RELIGION (Duke University).
- SYDNOR, CHARLES SACKETT; A.B., Hampden-Sydney College; Ph.D., Johns Hopkins; HISTORY (Duke University).
- TALBERT, ERNEST WILLIAM; A.B., San Jose College; A.M., Ph.D., Stanford University; ENGLISH (Duke University).
- THOMPSON, EDGAR TRISTRAM; A.B., University of South Carolina; A.M., University of Missouri; Ph.D., University of Chicago; SOCIOLOGY (Duke University).
- TORRES-RÍOSECO, ARTURO; Liceo de Talca; Bachelor's Degree, University of Chile; A.M., Ph.D., University of Minnesota; SPANISH (University of California, Berkeley).
- VAN ALSTYNE, DOROTHY; A.B., Vassar; A.M., Ph.D., Columbia; EDUCATION (Duke University).
- WALLIN, JOHN EDWARD WALLACE; A.B., Augustana College; A.M., Ph.D., Yale; EDUCATIONAL PSYCHOLOGY (Director of Special Education and Mental Hygiene, Delaware State Department of Public Instruction).
- WARD, CHARLES EUGENE; A.B., Baker University; A.M., Ph.D., Duke; ENGLISH (Duke University).
- WEST, ALFRED THURBER; B.S., Alabama Polytechnic Institute; A.M., University of Alabama; Teacher's Certificate from American Academy of Dramatic Art; ENGLISH (Duke University).

DUKE UNIVERSITY SUMMER SESSION

In 1944 there was a total registration of 855 in the Duke University Summer Session, excluding military and naval enrollees of Trinity College and the Engineering College and excluding also the enrollments of the Schools of Medicine and Nursing and of Law. Of these registrations, 660 were enrolled the first term, and 195 the second term. There were 328 graduate students the first term and 104 the second, admitted on the basis of Bachelor's degrees from 145 different colleges and universities. The total enrollment for the summer was drawn from thirty-two states, as well as the District of Columbia, Argentina, Canada, and Ecuador. The largest enrollments were from North Carolina, Pennsylvania, Virginia, West Virginia, Florida, Georgia, Ohio, South Carolina, New York, Alabama, New Jersey, Maryland, and Texas in the order named.

SCOPE AND PLAN OF WORK: CREDITS

Work is offered with the needs of the following classes of students in mind:

1. Candidates for the Master of Arts (A.M.) and Master of Education (M.Ed.) degrees, particularly teachers, supervisors, and administrators in the public schools who desire to complete degree requirements in a series of summers.

2. College undergraduates—men and women—seeking to hasten completion of Bachelor's degrees. (Special care is taken in advising students who are trying to complete degree requirements within three years by using their time in the summer. This matter has become particularly important in view of the national emergency.)

3. High-school graduates who wish to begin their work in May or June, instead of waiting until the following September.

Instead of the traditional one-hour courses for six weeks that compel the student to divide his time among three separate classes, the work of the Summer Session is divided into units of three semester hours, each class meeting for eighty-five minutes daily, five days per week for a period of six weeks. No student is permitted to obtain credit for more than two such courses, and no instructor teaches more than two. This means that instructor and student alike are limited to two preparations daily instead of three. The Summer Session also encourages students to take both their courses in one department. Undergraduates particularly are encouraged to take complete units of work within six weeks—that is, six semester hours of freshman English, or of second-year Spanish, or of United States History, etc. Elementary science courses are so organized that by taking a heavy laboratory schedule, students may obtain credit

for eight semester hours within seven weeks. There is no exception to the rule that the University allows no credit for six weeks beyond six semester hours.

Professional credits towards teachers' certificates are granted by the various state boards of education, each in accordance with its own carefully planned rules. Teachers should consult the rules laid down by their State Board of Education before enrolling for certification credit. Any student, however, whose work is of such quality as to deny him credit toward a degree, fails to receive "professional" credit.

College credits are offered as follows: A course meeting one hour daily for six weeks counts for two semester hours of credit, and a course meeting eighty-five minutes daily for six weeks counts for three semester hours of credit. The University will not accept credit beyond six semester hours earned in one term toward the Bachelor's degree. Graduate students are not under any circumstances permitted to enroll for more than six semester hours in a summer term of six weeks. They forfeit graduate credit by undertaking more than six semester hours of work, even though part of the work may carry undergraduate credit only.

The nature of the credit allowed for each course is indicated by the number of the course. Courses numbered 1-49 are primarily for Freshmen, or Freshman and Sophomores; courses numbered 50-99 are ordinarily for Sophomores, or Sophomores and Juniors; courses numbered 100-199 are for Juniors and Seniors; courses numbered from 200-299 are for Seniors and graduates; and courses numbered from 300 up are for graduate students only and are of very limited enrollment. Courses numbered from 200 up are usually limited in enrollment to approximately twenty-five students, and during the summer consist almost entirely of graduate students. Graduate seminars are limited to fifteen students or fewer.

COURSES FOR ENTERING FRESHMEN AND FOR UNDERGRADUATES DESIRING TO ACCELERATE THEIR PROGRAM

Freshmen, that is graduates of standard high schools who desire to begin their college work before the fall semester, may enter summer classes and complete within six weeks a full year's work in the subject taken. The "School of Spanish Studies" offers exceptional opportunity for such of these students as desire work in Spanish. General Zoology is also offered for beginning students, whether premedical or simply students desiring to complete their year of required science for the Bachelor of Arts degree. General Physics and Freshman English are the other courses open to Freshmen. Since in connection with the Navy College program the University begins a regular semester July 1, men desiring to enter college should write Mr. Charles E. Jordan, Secretary of the University, as to the regular college program instead of trying to enroll in the Summer Session.

Undergraduate students of the Woman's College and of Trinity College, Duke University, not in the armed services, as well as undergrad-

uates of other colleges desiring summer school courses, will find work both first and second terms of the Summer Session, entirely apart from the Navy College program of the University. This is especially important to those students who lack only six or twelve semester hours of completing their degree work. In order to get the courses they prefer such students should apply promptly.

ADMISSION

Applicants for admission to the Summer Session must meet the same requirements as if they applied in any other part of the University year. Undergraduate men desiring to enter Duke should have transcripts of their courses sent to Mr. H. J. Herring, Dean of Trinity College, and undergraduate women should have transcripts sent to Mrs. Elizabeth A. Persons, Secretary of Admissions to the Woman's College, at least two weeks before the opening of the term for which they wish to enroll, if they wish to be sure of classification before registration day. Until definite acceptance and classification by the Dean's Office they are not regularly enrolled students. Undergraduate students of other colleges should write the Director of Summer Session for a special blank to be signed by the dean of their college certifying approval of the course for which they apply.

If a student wishes to enroll for graduate courses, he should request the proper official at each of the universities or colleges which he has attended to send directly to the Dean of the Graduate School, Duke University, official transcripts of his undergraduate record and of any graduate credits which he may have. A student who has attended more than one college should note that certification by one institution of work completed at another institution cannot be accepted. In no case will a transcript presented by the candidate himself be accepted as a basis for admission nor will a transcript mailed by an institution be returned to the student. The graduate student should also fill out Graduate School application blanks, which may be obtained from the Graduate School of Arts and Sciences. Transcripts and applications must be furnished the Dean of the Graduate School two weeks before the beginning of the term for which the student wishes to enroll if he is to receive classification before registration day. Students whose credentials are not filed in time to be evaluated before registration day may be admitted provisionally to classes for which they indicate preparation, with the understanding that no credit will be allowed until admission requirements have been met. All such provisional registrations should be cleared within ten days of entrance.

The Summer Session reserves the right to reject any application or cancel any registration without assignment of reason.

FLEXIBILITY OF CALENDAR

It will be observed that the Summer Session of the University offers the students considerable flexibility as to the time of registration and the length of residence obtainable. For example, although most first-term

classes will begin Wednesday, June 20, it is possible for students who register in advance to enter classes as late as Monday, June 25, since each student is allowed four permissible absences. A student, however, cannot obtain full credit for the term's work with more than four absences. Furthermore, since many graduate students find it exceedingly hard to complete twelve weeks work in one summer term, students are permitted to register for only eleven weeks and take advantage of early examinations closing September 1. This means that the student who can attend the first term of the Summer Session and continues for five weeks of the last term, completes a full "summer quarter," or exactly one third of the year now required for a Master's degree. Finally, students who wish to complete nine weeks of work instead of six or twelve may in some cases be able to do so by planning their work for the first term so as to find a related course offered the first three weeks of the second term, or by entering a course July 9 that is completed within the last three weeks of the first term and closely related to some course continuing through the second term. There are in 1945 few courses offered for three weeks that permit this arrangement, but it is possible in most departments to enter a research seminar for as much as three weeks additional work.

CERTAIN CLASSES BEGINNING BEFORE REGISTRATION DATE

Since the 1944-45 session of the University closes May 26, there is a demand on the part of the Duke undergraduate students for certain classes to be given to begin Tuesday, May 29. These are indicated in the listing of courses. Although offered for the convenience of Duke undergraduates, they are open for enrollment to students from other colleges whose calendar permits them to enter early. A few graduate courses in Religious Education are also offered to begin May 29.

EXAMINATIONS

The last two days of each term of six weeks are devoted to examinations. The University has no provision for giving examinations *in absentia*, but students absent from examination for valid reason are permitted a liberal extension of time in which to return to the University for completion of credit.

The early opening of schools in which many Summer Session students happen to teach, sometimes necessitates the return home of students before the end of the second term. The provision made for such students is as follows: Any student whose record is superior in a given course may with the consent of his instructor and the approval of the Director of the Summer Session obtain a special examination not earlier than the fifth day before the regularly scheduled examination. If he takes such examination, the total credit in each course is reduced by one sixth; in other words, the student is interpreted as having completed five weeks of work, and his maximum allowable credit, therefore, is five semester hours.

GRADUATE DEGREES

Detailed information regarding the requirements for graduate degrees may be obtained from the *Bulletin of the Summer Session*.

THESIS WRITING IN SUMMER SESSION

Since Duke University grants no Master of Arts degree except upon completion of a satisfactory thesis, every candidate for that degree who expects to complete his work in the Summer Session should as soon as possible after completing his first term of residence choose a field in which he desires to write a thesis and confer with some instructor offering graduate courses in that field. The following points should be kept clearly in mind when arrangements are made for thesis supervision:

1. The thesis subject, which must be approved by the instructor who undertakes supervision and by the Director of Graduate Studies of the student's major department, is filed in the Graduate School Office on the blank regularly provided for that purpose. If the instructor believes that a topic proposed by a student is unsuitable, or that the student is not prepared to develop it, or that the instructor is not prepared to supervise it, his decision is final.

2. A student may enroll for six semester hours of residence credit towards a thesis or for less, in one term of six weeks. If he enrolls for only three semester hours he may enroll also for a course of three semester hours, but he cannot enroll for a total of more than six semester hours of credit, including residence toward his thesis. Completion of six semester hours of residence toward his thesis does not guarantee the satisfactory completion of the thesis, which must be acceptable to the instructor supervising it and to a committee representing the Council on Graduate Instruction. Students who do not complete their theses the first term they register for supervision have the privilege of registering a second term upon payment of regular dues, but are not required to do so. Since the numbers permitted to enroll in thesis seminars are strictly limited, such students are not permitted to register for a third term of supervision.

3. A student may either enroll in a specifically designated "thesis" course or, if his preparation meets the approval of the instructor in charge, attach himself to some regularly offered course in his field of study and report periodically to the instructor offering the course.

A student enrolling for thesis residence credit in regular course pays the same fees as other students during the summer of residence. At the time of graduation he pays the same diploma and commencement fees as other students and a thesis supervision fee of \$25.*

5. Students enrolling for thesis supervision during the Summer Session are expected to complete their theses largely during the summer of enrollment or some subsequent summer term. The instructor with whom they enroll is not under obligation to give active supervision during the academic year, although instructors are willing to give a reasonable amount of attention to theses practically completed. Similarly, instructors in Duke University who are not teaching in the Summer Session are not expected to undertake the supervision of theses written by summer school students.

6. Students enrolled for thesis supervision in the first summer term who expect to receive their thesis examination during that term should submit the bound copies of their theses to the Graduate School Office at least ten days before the end of the term. They may then be distributed by the examining committee. Failure to complete the thesis by that time will generally require

* Students completing the M.Ed. degree by examination pay an examination fee of \$25, in lieu of the thesis supervision fee.

deferment of the examination until the following term. Those who work on their theses during the second summer term must complete their theses and submit the bound copies to the Graduate Office at least ten days before the conclusion of the term if they wish to receive their diplomas in September. Students who fail to complete their theses by the conclusion of the second term must plan to take the final examination either in the following summer or in the following academic year. It is the policy of the University not to give examinations to candidates for the advanced degrees during the time between the Summer Session and the academic year.

7. Students of the academic year who do not complete theses begun prior to the Summer Session are not accepted for Summer Session enrollment unless their subjects are in the field of some thesis seminar or other course offered by an instructor who recommends that such students be assigned to his supervision during the summer. Instructors who are employed for full time by the Summer Session are specifically requested not to carry over into the summer thesis students whose subjects are not properly a part of work such instructors are offering in the Summer Session.

FEES

Teachers in active full-time service in schools and colleges are exempt from tuition fees for as many as four terms of six weeks in a period of six years. After their fourth term they pay regular tuition charges. All other students are charged a tuition fee of \$8.00 for each college credit hour, or \$4.00 for each semester hour, maximum tuition being \$24.00 for six weeks, or \$30.00 for courses running seven weeks. All students, teachers included, pay a registration fee of \$20.00 per term. Students in the sciences pay the laboratory fees required in regular term, and students completing degrees pay the regular commencement charges at the time of receiving their degrees, besides the thesis supervision of M.Ed. examination fee of \$25.00 required of persons completing Master's degrees.

Major expenses are estimated as follows for each term:

Registration	\$20.00
Room-rent and board	58.50
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Total major expenses to teachers	78.50
Tuition required of other students	24.00
Special fee for "School of Spanish Studies" ...	5.00

In the men's dormitories, as has been stated, the charge for rooms is one dollar less, making the total major expenses for occupants \$77.50. To these totals should be added about \$7.00 for books, probably \$3.00 for miscellaneous expenditures, and laboratory fees for any science course the student may elect.

"SCHOOL OF SPANISH STUDIES"

Because of the increased interest in Spanish studies throughout the nation and the great expansion of Spanish and Spanish enrollments in the colleges and high schools of this region, the Summer Session will again offer an unusual grouping of courses in Spanish the first term of the Summer Session, extending from elementary work through second- and third-year Spanish to graduate work and advanced seminars. It is planned to supplement the courses with liberal opportunity for speaking

the language, hearing lectures in Spanish, and conducting discussions and evening programs in the language. It is planned also to have Spanish-speaking tables in the University Union and a Spanish house in one of the East Campus dormitories. Both Castilian and Spanish-American culture and literature will be emphasized. Because of special facilities provided in "Spanish Studies," there is a special fee of five dollars charged, but all other expenses are the same as in other parts of the Summer Session.

APPOINTMENTS BUREAU

A Teachers' Appointments Bureau is maintained in Room 113, Administration Building, West Campus, for the benefit of teachers desiring a change of position. There is no charge for this service.

INSTITUTE FOR TEACHERS OF ARITHMETIC JULY 30-AUGUST 4

An institute for the teachers of arithmetic is planned for the week of July 30, following the main term of the Summer Session. For further information, write the Director of the Summer Session or Professor William A. Brownell.

SPECIAL NOTE TO UNDERGRADUATE STUDENTS TRYING TO ACCELERATE GRADUATION

It is the policy of the University to assist in any reasonable way students trying to accelerate their university work because of the national emergency. The Summer Session of 1945 is trying to make special provision for the following groups of students:

1. Those who lack fifteen hours or less of graduation (Provision has been made to permit a maximum of fifteen semester hours to be completed between May 29 and September 8. See concluding paragraph of this note.);
2. Those who need six or twelve semester hours in order to be able to graduate in one more semester;
3. Those who last summer planned to take at least twelve semester hours this coming summer in order to complete graduation in the fall semester.

Special attention is called to the courses that are tentatively offered to enable students to obtain three semester hours before the beginning of the regular Summer Session classes (first term) June 19.

COURSES OF INSTRUCTION

This is a condensed description of courses. For a full description, see Bulletin of the Summer Session.

EXPLANATIONS AND ABBREVIATIONS

Classes meet daily five times per week for six weeks unless otherwise indicated. Classes that meet for sixty-minute periods are indicated as carrying two semester hours of credit. Classes meeting eighty-five-minute periods daily count for three semester hours except where credits are stated otherwise. Courses are arranged alphabetically by departments. The course numbers are same numbers used in describing courses in the regular term, with the letter "S" preceding; for example English S1 would correspond to English 1 of the regular term.

N.B.—Different State Departments of Education grant professional credit for various courses in accordance with their own carefully defined rules. Every student should inquire carefully at or before registration as to what professional credit is allowed for each course in his state.

BOTANY

PROFESSOR HUGO L. BLOMQUIST, CHAIRMAN—203 BIOLOGY BUILDING; PROFESSOR
FREDERICK A. WOLFE, DIRECTOR OF GRADUATE STUDIES—315 BIOLOGY BUILDING*

S225. Special Problems.—Ecology, Taxonomy.—Credit to be arranged.
STAFF

S235. Introduction to Field Botany.—Prerequisite: one year of botany or
equivalent. 3 s.h. Mr. OOSTING

S359. Research in Botany.—Credit to be arranged. STAFF

ECONOMICS

PROFESSOR CALVIN B. HOOVER, CHAIRMAN—103 ADMINISTRATION BUILDING;
PROFESSOR JOSEPH J. SPENGLER, DIRECTOR OF GRADUATE
STUDIES—105 DIVINITY SCHOOL

S51. Principles of Economics.—3 s.h. Mr. DILLANGHAM

S52. Principles of Economics.—3 s.h. Mr. DILLANGHAM

S120. Economic Geography of the Pacific.—3 s.h. Mr. LEMERT

S152. Global Geography.—3 s.h. Mr. LEMERT

S233. State and Local Finance.—Prerequisite: Public Finance, or consent
of instructor. 3 s.h. Mr. RATCHFORD

S236. Public Finance.—3 s.h. Mr. RATCHFORD

* For the convenience of students working toward graduate degrees the names of the chairmen of departments and directors of graduate courses are given for departments now offering a full sequence of courses leading to Master's degrees.

EDUCATION

PROFESSOR HOLLAND HOLTON, CHAIRMAN—2A WEST DUKE BUILDING; PROFESSOR
WILLIAM A. BROWNELL, DIRECTOR OF GRADUATE STUDIES—1C
WEST DUKE BUILDING

PUBLIC SCHOOL ADMINISTRATION (GRADUATE COURSES)

(Master's candidates in this division elect their minor work in Political Science, Economics, or Sociology. Candidates for the Master of Education under the new plan must take fifteen semester hours of work from the courses specifically listed under this division.)

- S234. Secondary School Organization and Administration.—3 s.h. Mr. HIGHSMITH
S323. Public School Finance.—3 s.h. Mr. GOLDTHORPE
S343. State and County School Administration.—3 s.h. Mr. GOLDTHORPE

PUBLIC SCHOOL SUPERVISION (GRADUATE COURSES)

(Master's candidates in this division elect their minor work in Psychology or an approved combination with Educational Psychology, or in Sociology. Master of Education candidates are permitted as many as nine semester hours of work in their minor, but take the remaining twelve or fifteen, if minor is only six hours, from courses specifically described or listed under Supervision.)

- S209. Statistical Methods in Education.—3 s.h. Mr. SCATES
S222. The Curriculum and Materials of the Elementary Grades.—3 s.h. Mr. HILLMAN
S232. Elementary School Supervision.—3 s.h. Mr. CARR
S273. Problems of High-School Supervision.—3 s.h. Mr. HIGHSMITH
S287. Problems of Mentally and Educationally Retarded Children.—3 s.h. Mr. WALLIN
S288. Problems of Mental Hygiene and Education.—3 s.h. Mr. WALLIN
S304. The School as an Institution.—3 s.h. Mr. GOLDTHORPE
S305. The Nature, Function, and Reorganization of the Curriculum.—3 s.h. Mr. CARR

EDUCATIONAL PSYCHOLOGY (GRADUATE COURSES)

(The Master of Education degree is not offered in this division. Master of Arts candidates should choose Psychology for their minor subject. It will be observed that certain of the courses listed under Educational Psychology are also listed under Supervision, Secondary Education, or Elementary Education.)

- S209. Statistical Methods in Education.—3 s.h. Mr. SCATES
S237. Investigations in Reading.—3 s.h. Miss VAN ALSTYNE
S238. Remedial Reading: Problems and Techniques in Grades III to VI.—3 s.h. Miss VAN ALSTYNE
S239. Investigations in Tests and Measurements.—Prerequisite: course 258 or its equivalent. 3 s.h. Mr. SCATES
S247. Investigations in Arithmetic.—3 s.h. Mr. BROWNELL
S258. Educational Measurements.—3 s.h. Mr. SCATES
S300. Introduction to Educational Research.—3 s.h. Mr. SCATES
S317. The Psychological Principles of Education.—3 s.h. Mr. BROWNELL

SECONDARY EDUCATION (GRADUATE COURSES)

(Master's candidates in this division should elect minor work in their teaching subject, or in Psychology or Sociology. Master of Education candidates are required to elect their minor work in their teaching subject, and all of their work in Education must come from courses listed in this division. Teachers of Religion in public schools should register in this division unless they prefer to use Religion as their major subject.)

S205. Curriculum Problems in Secondary Education.—3 s.h. MR. CHILDS

S206. Sociological Foundations of Secondary Education.—3 s.h.
MR. CHILDS

S215. Educational and Vocational Guidance.—Prerequisite: twelve semester hours in the Department, including course 105 or course 206. 3 s.h.
MR. GWYNN

S234. Secondary School Organization and Administration.—3 s.h.
MR. HIGHSMITH

S273. Problems of High-School Supervision.—3 s.h. MR. HIGHSMITH

S296. Problems of Teaching Religion in the Secondary Schools.—3 s.h.
MR. GWYNN

ELEMENTARY EDUCATION (GRADUATE COURSES)

(Master's candidates in this division should take their minor work of six semester hours in Psychology, Educational Psychology, or an approved combination of the two, or in Child Welfare and Development—wholly in Sociology, or partly Sociology and Psychology, or Educational Psychology, if a satisfactory combination can be worked out. Master of Education candidates in this division must take fifteen semester hours of work described or listed under Elementary Education.)

S2222. The Curriculum and Materials of the Elementary Grades.—3 s.h.
MR. HILLMAN

S232. Elementary School Supervision.—3 s.h. MR. CARR

S237. Investigations in Reading.—3 s.h. MISS VAN ALSTYNE

S238. Remedial Reading: Problems and Techniques in Grades III to VI.—3 s.h. MISS VAN ALSTYNE

S247. Investigations in Arithmetic.—3 s.h. MR. BROWNELL

S268. Investigations in Geography.—3 s.h. MR. HILLMAN

S287. Problems of Mentally and Educationally Retarded Children.—3 s.h.
MR. WALLIN

S288. Problems of Mental Hygiene and Education.—3 s.h. MR. WALLIN

S304. The School as an Institution.—3 s.h. MR. GOLDTHORPE

S305. The Nature, Function, and Reorganization of the Curriculum.—3 s.h.
MR. CARR

COURSES RECOMMENDED FOR DEANS OF WOMEN AND OTHER PERSONS
INTERESTED IN GUIDANCE AND COUNSELING

Persons interested in preparing for positions such as dean of women, girls' adviser, director of guidance, and the like, are advised to plan a Master's degree consisting of graduate courses drawn from educational psychology and supervision, general psychology, and sociology, from such courses as the following:

Education

S206. Sociological Foundations of Education.

- S208. Mental Tests and Applications.
- S215. Educational and Vocational Guidance.
- S218. Educational Implications of Genetic Psychology.
- S233. Pupil Accounting, or
- S233A. Pupil Personnel Problems and Procedure.
- S234. Secondary School Organization and Administration.
- S239. Investigations in Tests and Measurements.
- S258. Educational Measurements.
- S287. Problems of Mentally and Educationally Retarded Children.
- S288. Problems of Mental Hygiene and Education.
- S289. Character and Personality Testing.
- S305. The Nature, Function, and Reorganization of the Curriculum.
- S317. Advanced Educational Psychology.

Psychology

- S204. Psychology of Motivation.
- S206. Social Psychology.

Sociology

- S205. Social Pathology.
- S212. Child Welfare.
- S216. Urban Sociology.
- S220. Rural Sociology.
- S236. Social Ethics.

ENGLISH

PROFESSOR NEWMAN I. WHITE, CHAIRMAN—2G WEST DUKE BUILDING; PROFESSOR J. B. HUBBELL, DIRECTOR OF GRADUATE STUDIES—105 EAST DUKE BUILDING

Master's candidates in English are required to complete at least three semester hours in Chaucer or certain other designated courses. Master's candidates who have completed as many as twelve semester hours of graduate work should take also the bibliography course, S301, at their earliest opportunity.

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| S1. English Composition.—3 s.h. | MISS POTEAT |
| S2. English Composition.—3 s.h. | MISS POTEAT |
| S56. Representative English Writers.—3 s.h. | MR. PATTON |
| S64. English Poetry of the Eighteenth and Nineteenth Centuries.—3 s.h. | MISS POTEAT |
| S119. History of the Theater.—3 s.h. | MR. WEST |
| S122. Play Production.—3 s.h. | MR. WEST |
| S123. Shakespeare: The Histories and Comedies.—3 s.h. | MR. TALBERT |
| S126. English Literature of the Romantic Period.—3 s.h. | MR. PATTON |
| S139. The Speaking Voice.—3 s.h. | MR. WEST |
| S215. Elizabethan Drama.—3 s.h. | MR. TALBERT |
| S216. The English Drama in the Reign of James I.—3 s.h. | MR. TALBERT |
| S237. English Drama, 1642-1800.—3 s.h. | MR. WARD |

S301. Bibliography and Methods of Research.—3 s.h.

MR. WARD

S329. Seminar in Sixteenth- and Seventeenth-Century English Literature.
—3 s.h.

MR. GILBERT

GEOGRAPHY

See courses S109 and S120 under Economics.

GOVERNMENT

See courses listed under Political Science.

GREEK LITERATURE

(In English Translation)

S121. Homer.—3 s.h.

MR. ROSE

S122. Greek Literature: The Great Tragedies.—3 s.h.

MR. ROSE

HISTORYPROFESSOR WILLIAM T. LAPRADE, CHAIRMAN AND DIRECTOR OF GRADUATE
STUDIES—2B WEST DUKE BUILDING

S52. Historical Background of the World Today.—3 s.h.

MR. BREWSTER

S91. Political and Social History of the United States to 1850.—3 s.h.

MR. BREWSTER

S92. Political and Social History of the United States since 1850.—3 s.h.

MR. BREWSTER

S233. The Cultural and Institutional History of Colonial Hispanic Amer-
ica.—3 s.h.

MR. LANNING

S234. Political and Social Problems in the Hispanic American Republics.
—3 s.h.

MR. LANNING

S236. The South in Federal Politics, 1789-1860.—3 s.h.

MR. SYDNOR

S315. Seminar in Southern History.—3 s.h.

MR. SYDNOR

MATHEMATICSPROFESSOR JOHN J. GERGEN, CHAIRMAN AND DIRECTOR OF GRADUATE
STUDIES—03 GRAY BUILDING

S225 Theory of Equations.—Prerequisite: integral calculus.

S231. Differential Equations.—Prerequisite: integral calculus.

S235. Modern Algebra.—Prerequisite: integral calculus.

S239. Advanced Calculus.—Prerequisite: integral calculus.

S255. Projective Geometry.—Prerequisite: integral calculus.

S259. Solid Analytic Geometry.—Prerequisite: integral calculus.

S389X. Thesis Seminar.

PHYSICS

S1-S2. General Physics.—8 s.h.

MR. HATLEY

POLITICAL SCIENCE

S61. American Government and Politics.—3 s.h.

MR. HORN

S62. American Government and Politics.—3 s.h.

MR. HORN

S225. Comparative Government: European Constitutional.—3 s.h.

Mr. COLE

S226. Comparative Government: Authoritarian and Dictatorial.—3 s.h.

Mr. COLE

RELIGION

PROFESSOR BENNETT HARVIE BRANSCOMB, DEAN OF THE DIVINITY SCHOOL—110

DIVINITY SCHOOL; PROFESSOR H. SHELTON SMITH, CHAIRMAN

AND DIRECTOR OF GRADUATE STUDIES—LIBRARY

S167. Contemporary Religious Problems.—3 s.h.

Mr. SPENCE

S182. Living Religions of the World.—3 s.h.

Mr. CANNON

S203. The Old Testament.—3 s.h.

Mr. STINESPRING

S222. Theology and Philosophy in the Nineteenth Century.—Prerequisite: six semester hours in philosophy or its equivalent. 3 s.h.

Mr. CUSHMAN

S291. Christian Ethics.—3 s.h.

Mr. SMITH

S296. Problems of Teaching Religion in the Secondary Schools.—3 s.h.

Mr. GWYNN

S310. Old Testament Prophecy.—3 s.h.

Mr. STINESPRING

S321. Introduction to Theology.—3 s.h.

Mr. ROWE

S326. Christian Doctrine: Eschatology.—Prerequisite: Introduction to Theology. 3 s.h.

Mr. ROWE

S334. Church Reformers and Christian Unity.—3 s.h.

Mr. PETRY

S339. Methodism.—3 s.h.

Mr. PETRY

S394. Religious Thought in Modern America.—3 s.h.

Mr. SMITH

SOCIOLOGY

PROFESSOR HOWARD E. JENSEN, ACTING CHAIRMAN AND DIRECTOR OF

GRADUATE STUDIES—203 CARR BUILDING

S101. General Sociology.—3 s.h.

Mr. THOMPSON, Mr. HART

S205. Social Pathology.—3 s.h.

Mr. JENSEN

S212. Child Welfare.—3 s.h.

Mr. JENSEN

S216. Urban Sociology.—3 s.h.

Mr. THOMPSON

S225. Statistical Methods in Sociology.—Prerequisite: course 91-92, 101, or -31-132. 3 s.h.

Mr. HART

S236. Social Ethics.—3 s.h.

Mr. HART

SPANISH

PROFESSOR OLAV K. LUNDEBERG, DIRECTOR OF THE SCHOOL OF SPANISH

STUDIES—115 CARR BUILDING

S1. Introductory Spanish.—3 s.h.

Mrs. DILLINGHAM

S2. Introductory Spanish.—3 s.h.

Mrs. DILLINGHAM

S3. Intermediate Spanish.—3 s.h.

Mr. DAVIS

S4. Intermediate Spanish.—3 s.h.

Mrs. CASTELLANO

S65. Introduction to Modern Spanish Literature.—3 s.h.

Mr. DAVIS

S68. Introduction to Spanish-American Literature.—3 s.h.

SRA. DE GUERRA

- S173. Advanced Oral Spanish.—3 s.h. SR. CASTELLANO
 S255. Problems in the Learning and Teaching of Spanish.—3 s.h.
 MR. RUSSELL AND VISITING SPECIALISTS
 S264. El teatro español contemporáneo.—3 s.h. SR. CASTELLANO
 S277. Instituciones culturales de la América hispana.—3 s.h. SR. TORRES

FOR GRADUATES ONLY

- S370. Thesis Problems.—3 s.h. MR. LUNDEBERG, SR. TORRES
 S377. Los grandes novelistas modernos hispanoamericanos.—3 s.h.
 SR. TORRES

NOTE: SPANISH "WORKSHOP"

In connection with the School of Spanish Studies, there will be conducted from June 18-July 28, a "South Atlantic Inter-American Teacher's Workshop" sponsored jointly by the Summer Session and the Office of the Co-ordinator of Inter-American Affairs, Department of State, Washington, D. C. Dr. Russell will serve as the Executive Secretary of the "Workshop," which will include intensive work with native and American specialists on topics and problems of interest to teachers of Spanish and Spanish-American History.

For further information, address The Director of Summer Session, Duke University.

ZOOLOGY

PROFESSOR IRVING E. GRAY, CHAIRMAN—218 BIOLOGY BUILDING; PROFESSOR GEORGE T. HARGITT, DIRECTOR OF GRADUATE STUDIES—326 BIOLOGY BUILDING

For admission to candidacy for a Master's degree in Zoology, students should have completed an undergraduate major in Zoology (courses in General Science and Botany are not counted as a part of a Zoology major). This normally amounts to about twenty-four semester hours, which should be distributed among the various fields of Zoology, and must include Vertebrate Zoology or Comparative Anatomy, Physiology, and Embryology, passed with creditable grades. A candidate should also have completed at least one year of Chemistry. Work for the degree will require eighteen hours in advanced courses in Zoology, and six hours in another department for a minor, in addition to a thesis. Before registration for a degree, students should confer with the Director of Graduate Studies for the Department. Students not candidates for a degree may take courses offered, if they have necessary prerequisites; but may not count them toward a degree until an undergraduate major has been completed.

- S1. General Zoology.—4 s.h. MISS JEFFERS
 S2. Animal Biology.—4 s.h. MISS JEFFERS
 S206. Marine Biology.—6 s.h. MR. HUMM

DUKE UNIVERSITY

DEGREES AND HONORS CONFERRED (1945)

ROLL OF STUDENTS (1944-1945)

TRINITY COLLEGE AND THE COLLEGE OF ENGINEERING

THE WOMAN'S COLLEGE

THE GRADUATE SCHOOL OF ARTS AND SCIENCES

THE DIVINITY SCHOOL

THE SCHOOL OF LAW

THE SCHOOL OF MEDICINE

THE SCHOOL OF NURSING

THE SCHOOL OF FORESTRY

DEGREES AND HONORS CONFERRED (1945)

A.B. DEGREE

Armistead, Gloria May	Horsley, Catherine Jean
Axton, Barbara Joan	Hostetter, Margaret Jane
Bacon, Margaret Elizabeth	Howard, Emily-Jane
Barber, Mary Nancy	Howe, Betty
Barthen, Jacqueline	Hurley, Susanne Headen
Baumgartner, Nancy Jean	Jackson, Betty Lou
Beaver, Josephine	Johnson, Shirley Mae
Bell, William Seaman	Jones, Mary Elizabeth
Blue, Lucile Edgerton	Kansteiner, Helen Ruth
Bogert, Esther Eoline	Kearns, Susan
Boren, Betty Lee	King, Carolyn
Brengle, George Robert	Knowles, Marjorie Irene
Brown, Margaret Daves	Laws, Nancy Lee
Cardo, Augusta Patricia	Lineberger, Anne Simpson
Carlton, Margie	Long, Agnes Christie
Cauldwell, Eleanor Thackara	Lussenhop, Barbara Ann
Christodoulou, Marie Nicholas	Maddox, Mildred Mitchell
Clark, June Fouraker	Magill, Sara Kennedy
Clark, Mary Ann	Markham, Charles Buchanan
Cline, Alice Jeannette	Mathews, Emily Marcella
Colbert, Jeanne	Matthews, Helen Elizabeth
Collins, Genevieve Cecilia	Mayhew, Barbarajane
Currie, Virginia Dare	McArthur, Jean
Dameron, Sarah Elizabeth	McCall, June
Davis, Elizabeth Susan	Meister, Dagmar Amy
Decker, Shirley Margaret	Mellon, Joan Seidenman
DeWitt, Margaret Elizabeth	Merritt, Mary Louise
Donegan, Mildred Alice	Metzner, Betty Jane
Donovan, Nancy Meacham	Mickelsen, Patricia Anne
Dravo, Marguerite de Vere	Moore, Virginia Lee
Duncan, Kathleen Gladys	Mordecai, Ellen
Durant, Harriet March	Morgan, Mary
Edwards, Barbara Jean	Morrison, Harriet Marie
Eldredge, Geneva Edwina	Morton, Marion Boyd
Evans, Dorothy Elaine	Mulligan, Helene Grace
Flexner, Anne	Murph, Guynell
Freeman, Carol	Nash, Ralph
Gantt, Dorothy Hyland	Nease, Edgar Harrison, Jr.
Gauchat, Joan Marie	Nicholson, Martha
Geyer, Mary Adeline	Obermaier, Margaret Elizabeth
Gilliam, Betty Jean	Onken, Warren Harding
Goodman, Katherine Louise	Paty, Josephine Anne
Goodwin, Helen Dyer	Phipps, Carol King
Grebe, Camilla Anne	Pierce, Margaret Ellen
Greenwell, Merthel	Pine, Elizabeth Carr
Groome, Dotty Dare	Powell, Sophia Maude
Haering, Helen Elizabeth	Ramsburgh, Julia Maynard
Harbison, Kathryn Holt	Ramsey, Barbara
Hawkins, Virginia C.	Rankin, Betsy Brandon
Heim, Peggy	Richards, Memory Fay
Hilley, Jeanne Tucker	Richardson, Frances Claire
Hillman, Anne Warlick	Rile, Harriet Harvey

Roach, Eleanor Lee
 Ronk, Alice Edwina
 Ryon, Mary Elizabeth
 Sarré, Eugénie Cecile
 Schlueter, Alice Hazel
 Schroder, Margaret Pauline
 Siegel, Leona Beatrice
 Soar, Marjorie Elizabeth
 Starnes, Elizabeth Colclough
 Starr, Maurice Kenneth
 Stewart, Virginia Yvonne
 Sugg, Dorothy Elizabeth
 Super, Mary Virginia
 Swisher, Betty Lee
 Tausch, Barbara Jean
 Taylor, Marguerite Getaz
 Thomas, Mary Lucile

Thompson, Celia Mae
 Vosburgh, Marilyn Wasson
 Wade, Helen Sylvia
 Walker, Ann
 Walker, Anna Jean
 Walker, Doreen Virginia
 Watlington, Laura Lynn
 Wetmore, Marion Dare
 White, Evelyn Bernhardt
 Willoughby, Robert Earl
 Wilson, Betty Ann
 Wimberly, Eugene Owen
 Wood, Lois Edna
 Woodall, Erin Tuttle
 Yeager, Edward Cornelia
 Young, Carolyn Katherine

B.S. DEGREE

Kibler, Robert Franklin
 Scholz, Elizabeth Anne

Scuran, Carol Ovedia

A.M. DEGREE

Autry, Randall Franklin
 Braverman, Howard
 Bulwinkle, Muriel Charlton
 Clark, Ellen Mercer
 Dillingham, Mary Marjorie Carter

Krathwohl, Betty Augenstine
 Lewis, Nancy Eloise
 Oates, Julia Neagle
 Raskin, Vilma Leah

M.ED. DEGREE

Ellis, Ivy Mary Phillips
 Mathias, Ama Avis

Miller, Sidney Franklin

M.R.E. DEGREE

Luke, Mary

Naylor, Mary Jean

B.D. DEGREE

Belcher, Arnold Dwane
 Boone, Sidney Grant
 Brickhouse, Ernest Fielding
 Byrum, Roy Delbert
 Cooke, Jack Homer
 Everett, Caleb Roy, Jr.
 Fridley, Robert Daniel
 Fuqua, Robert Meek
 Greene, Franklin William
 Harbuck, George Welcome
 Ingram, Osmond Kelly
 Jolly, Joseph Ralph
 Jones, Haniel

Jones, Murray Hughlon
 Lowder, John Albert
 McCarver, Clyde Gay
 McGinnis, James William
 Needham, George Harlan
 Perry, Charles Streamberg
 Preston, Norman George, Jr.
 Ray, Milton Undrel
 Sturtevant, William Lyons
 Turner, Archer Rudder
 Waugh, Ray Paschal
 Wellons, Albert Wilson
 Williams, Harley Morrison

LL.B. DEGREE

Collings, Hazel Cover

Fulk, Frances Houston

PH.D. DEGREE

Adams, Joe Taylor, B.S., Southern Methodist University.
 Dissertation: *The Acylation and Alkylation of Certain Carbonyl Compounds.*
 Amore, Salvatore Thomas, A.B., Brooklyn College; A.M., Duke University.
 Dissertation: *Derivatives of 9-Alkylphenanthrenes.*

Deal, Carl Hosea, Jr., B.S., Duke University.

Dissertation: *Dielectric Constant and Dielectric Loss Measurements of Some Organic Compounds.*

Evans, Alona Elizabeth, A.B., Duke University.

Dissertation: *The Concept of Self-Executing Treaties in the United States.*

Hodges, Wiley Edward, B.S., Roanoke College; A.M., Duke University.

Dissertation: *The Trend of Laissez-Faire in Virginia, 1789-1836.*

Huff, Jesse William, B.S., University of Pittsburgh.

Dissertation: *Studies on the Metabolism of Nicotinic Acid and of Pyridoxine.*

Humm, Harold Judson, B.S., University of Miami; A.M., Duke University.

Dissertation: *A Study of Marine Agar-Digesting Bacteria of the Atlantic Coast.*

Levine, Robert, A.B., A.M., Dartmouth College.

Dissertation: *Certain Claisen Condensations using Sodium Amide and Some Related Reactions.*

Luborsky, Lester Bernard, A.B., Temple University; A.M., Duke University.

Dissertation: *Some Factors Involved in Short Exposure Visual Perception with Special Reference to Aircraft Recognition Training.*

Rapoport, Lorence, A.B., Harvard College.

Dissertation: *The Synthesis of Derivatives of the Carcinogen 1, 2, 3, 4-Dibenzophenanthrene.*

Richards, Claud Henry, Jr., A.B., Texas Christian University; A.M., Duke University.

Dissertation: *Jehovah's Witnesses: A Study in Religious Freedom.*

Rudisill, Dorus Paul, A.B., Lenoir-Rhyne College; A.M., University of South Carolina; B.D., Lutheran Theological Southern Seminary; S.T.M., Hartford Theological Seminary.

Dissertation: *The Doctrine of the Atonement in Jonathan Edwards and His Successors.*

Singer, Mary Rebecca White, A.B., Fairmont State Teachers College; A.M., Duke University.

Dissertation: *Octavia Minor, Sister of Augustus: An Historical and Biographical Study.*

Stabler, Carey Vitallis, B.S., A.M., University of Alabama.

Dissertation: *The History of the Alabama Public Health System.*

Stirewalt, Martin Luther, Jr., A.B., Lenoir-Rhyne College; A.M., Duke University.

Dissertation: *The Letter in Greek Literature.*

Taylor, Donald Lavor, B.S., M.S., Utah State Agriculture College.

Dissertation: *Courtship as a Social Institution in the United States, 1930 to 1945.*

Tompson, Reade Yates, Sc.B., Brown University.

Dissertation: *The Vapor Phase Fluorination of Certain Organic Compounds, Representing Either Polynuclear Molecules, or Highly Deactivated Systems.*

Wimberly, Rosamonde Ramsay, A.B., A.M., University of South Carolina.

Dissertation: *The Sequence-Pattern Concept of Social Change, with Especial Reference to Blindness and the Blind in South Carolina.*

Wissow, Lennard Jay, B.S., Pennsylvania State College; A.M., Duke University.

Dissertation: *Synthetic Applications of the Cyclodehydration Reaction.*

Woodbridge, Charles Jahleel, A.B., A.M., Princeton University; Th.B., Princeton Theological Seminary.

Dissertation: *The Chronicle of Salimbene of Parma: A Thirteenth-Century Christian Synthesis.*

HONORS IN GRADUATING CLASSES

Summa Cum Laude

June 23, 1944	October 25, 1944
Ruth Reade McDonald	Elizabeth Ann Brett
September 2, 1944	May 26, 1945
Lillian Ione Blackburn	June McCall
	Ralph Lee Nash
	Carol King Phipps

Magna Cum Laude

June 23, 1944	February 23, 1945
William Charles Dackis	Edgar Bowling Bennett
Francis Paul Mooring	Rosalind Gower Smith
Robert Vincent Nauman	Evelyn Gray Vail
September 2, 1944	May 26, 1945
Evans Arnold Meinecke	Robert Franklin Kibler
January 31, 1945	Helen Ruth Kansteiner
Shirley Louise Beckert	Mary Louise Merritt
	Martha Nicholson
	Barbara Ramsey

HONORS IN DEPARTMENTS

Physics—Francis Paul Mooring

NAVY PROGRAM—JULY AND OCTOBER SEMESTERS

July 4, 1944-February 23, 1945

Students are listed according to rank in class.

Junior Honors

Freedman, William	Kelly, James Gerald
Warner, Tim Goode	Elkins, Augustus Coolidge
Greenwald, Frank Stafford	

Sophomore Honors

Wilson, John Winkle, Jr.	Clark, Sam Lillard
Clark, Walter S.	Lowe, Donald Scott
Campbell, Lachlan Leigh	

Freshman Honors

Friauf, Robert James	Taylor, David Kerr
Vining, Ralph Edward, Jr.	Spears, Marshall Turner
Bennett, Reginald Victor	Boeckel, John Hart
Gurley, Joseph Grafton	Kowalski, Ludwig Robert

THE WOMAN'S COLLEGE, 1944-1945

Freshman Honors

Earp, Laura Aileen	McGiehan, Dayne
Terrell, Katherine	Rudy, Martha
Vigodsky, Leah June	Bluhm, Frances
Lester, Helen Greene	Gurney, Louise Cummings

Sophomore Honors

Clute, Marjorie Anne	Neely, Beverly Joy
Schimmel, Jeanne Merrill	Merrill, Mary Constance
McElroy, Antoinette Paulin	Cohen, Joyce
Green, Cathie Ann	Crane, Charlotte
Peterson, Margaret F.	Deuell, Estelle Virginia
Taylor, Mary Jo	Murchison, Betty Powell
Hudson, Frances	Schwarz, Laura Anne

Junior Honors

Chelimer, Edith
 Beggs, Betty Ann
 Boehme, Mary Harding
 Foote, Marie Lovett

Saperstein, Passie O.
 Mirick, Marjorie
 Pace, Emma Jean

DEGREES AWARDED SINCE COMMENCEMENT IN MAY, 1944
 Degrees Awarded June 23, 1944

A.B. DEGREE

Andrews, Phyllis Jane
 Barden, Graham Arthur, Jr.
 Beamer, Elbert Ernest
 Carver, Gordon Malone, Jr.
 Castle, Edwin Robert
 Clark, Robert Arthur
 Elliott, Emrich Eugene
 Feriozi, Dante John
 Gutstadt, Joseph Platt
 Hill, John Kling
 Huntley, Constance Alice
 Jaffey, Arthur
 Kalevas, Harry John
 Kingery, Lisle Byron, Jr.
 Lambert, M. Charles

Levine, Bertram
 McCracken, William Woods
 Malone, Harold John
 Mooring, Francis Paul
 O'Kane, Calvin Russell
 Powell, John Lynn
 Prytherch, John P.
 Shaw, Walter Norman
 Smith, Chandler Sparkman
 Smith, James Daniel
 Thiele, Marguerite Alberta
 Thomson, George B.
 Vehe, Robert Richard
 Warren, Max Gerald
 Winberry, Herman Stanford

B.S. DEGREE

Atkinson, John Virgil
 Giuliano, Jerry James
 McDonald, Ruth Reade

Nauman, Robert Vincent
 Scholl, Mary Katherine
 Stoddard, Shirley Dickson

In Electrical Engineering

Myers, Charles Rudolph, III

Sterrett, Donald Hewett

In Mechanical Engineering

Chapman, John Edward, Jr.
 Connor, Bruce Kenneth
 Dackis, William Charles
 Evans, William Thomas, III

Jeffcoat, Gaines Ray
 McLaughlin, Robert Theodore
 Rountree, Albert Converse, II
 Williams, Claude Bernard, Jr.

M.F. DEGREE

Berry, Frederick Hamer

Olson, Earl Franklin

M.D. DEGREE

Rogers, Edgar Stanfield

DEGREES AWARDED SEPTEMBER 2, 1944

A.B. DEGREE

Bamber, Kathleen Rahily
 Bunting, Sarah Ansley
 Chorpene, Dorothy Louise
 Copley, Ruth Garrard
 Doty, Fred Owen
 Green, Margaret Rose
 Hall, Mary Watters
 Hoyle, Katherine Magoon
 Lawrence, Anna Frances
 Lorentz, Henrietta Davenport
 Martch, Jeanne Marie

McClenaghan, Ann Whitaker
 McDonald, Walter Neill
 Mead, Martha Elizabeth
 Meinecke, Evans Arnold
 Morrison, Mary Ann
 Shumate, Camille Littleton
 Streeter, Beverly Marie
 Whitaker, Thomas Early
 Whitten, Phyllis Osborne
 Wierengo, Elizabeth Thompson

B.S. DEGREE

Blackburn, Lillian Ione
Garver, Jane Carolyn

Register, Anna Lee
Tipton, Evelyn Miller

M.ED. DEGREE

Bowman, Audria Mae
Brosius, Magdalene Hershey
Coleman, Virginia Lee
Creath, William Fontaine
Dunn, Lucile
Fant, Alethea Blackmore
George, Austin Holly
Gibson, Samuel Koonce
Grose, Georgianna Mary
Guesman, Adelaide Ivill
Hanks, Thomas Edgar

Heagy, Dorothy May
Hendler, Cornelia Clara
McCurdy, John Albert
Malcolm, Pearle Malinda
Parker, Edna Earle
Pitts, Mabel Davidson
Prillaman, Mary Jane
Reed, Bruce
Stoner, Aaron Hess
Tanner, Agnes Vicars

A.M. DEGREE

Breece, Ruth Isobel Schoenberger
Facinoli, Adele
Hertz, Hilda
King, Sara Edna
Mitchell, Edith Myrl
Pyle, Katherine Asenath

Roebuck, Julian Baker
Scarboro, Louise Bernice
Stallcup, Mary Jane
Tomlinson, Muriel Dorothy
Tracy, Helen Louise Wellman

DEGREES AWARDED SEPTEMBER 9, 1944

LL.B. DEGREE

Bronson, John William

Taub, Melvin S.

DEGREES AWARDED SEPTEMBER 23, 1944

M.D. DEGREE

Atwell, Robert James
Baker, Horace Mitchell, Jr.
Beckel, Frank Louis
Benson, Walter Russell
Blackburn, Charles Marvin
Boatman, Jack Holland
Bradsher, Jacob Thompson, Jr.
Brenna, Joseph Dondiego
Cates, Banks Raleigh, Jr.
Chickering, William Alan
Collins, John Pope
Connar, Richard Grigsby
Cronk, Gerald Edwin
Cronk, Robert Thomas
Cummings, Martin Marc
Dalton, Arthur Markham
Davis, William Hersey, Jr.
Davison, William Townsend
Dratz, Henry Martin
Ducker, Stuart Reiley, Jr.
Duckett, Howard Casey, Jr.
Edwards, Ernest Goodall, Jr.
Featherston, William Preston
Fetter, Bernard Frank
Fetter, William Joseph
Finley, Dorothy Grace
Fordham, George Francis
Frazier, Truett Hollis

French, Anneva Louise
Fritz, Wilton George
Cobbell, Walter Gothard, Jr.
Green, William Wills, III
Hainje, Nannie Marguerite
Hansen, James Lawrence
Hare, Francis Williams, Jr.
Henderson, Robert Pinckard
Himadi, George Manley
Honig, Lester Jerome
Hooten, Claude Gibson, Jr.
Hutson, James Jackson
Irvin, Charles Warren, Jr.
Jonas, Karl Crawford
Jones, Paxton Lane
Kubek, Robert Bruce
Lawson, John Fuller
Liles, George Welch
McIntosh, Archibald Nock
Magruder, William Wailes
Martin, Tom Lewis
Massey, George Harold
Matthews, Walter Sidney, Jr.
Morgan, William Clayton
Murray, William Gray
Palumbo, Leonard, Jr.
Perkins, Rex Beach
Prince, George Edward

Renner, Richard Grover
 Roberts, Henry Lamar
 Rulon, David Bernard
 San, James Matthew
 Schmidt, Frederick Kenneth
 Sexton, Richard Paul
 Townsend, Bertram Fairley

West, Joseph Warren
 Wetmore, Robert Jackson
 White, Beverly Holland
 Whitesides, William Carl, Jr.
 Wilhoit, William Merrill Corry
 Yarborough, John Archibald

DEGREES AWARDED OCTOBER 25, 1944

A.B. DEGREE

Brett, Elizabeth Ann
 Brinkley, William Lambreth, Jr.
 Fish, Harry Gustav, Jr.
 Froass, Mary Constance
 Harrison, James Graham, Jr.
 Jackson, Martha Bulloch
 Linberg, Eugene Joseph
 Marshall, Robert Pickens

Micara, Francis Anthony Edward
 Nicholson, Henry Hale, Jr.
 Odell, Robert H.
 Poole, Madge
 Poole, Nell
 Rankin, Eleanor Lambeth
 Sineltzer, James Loughrey
 Wilson, Leo Hughes, Jr.

B.S. DEGREE

Burroughs, Anne Stapley
 Gaskins, Mary Elizabeth
 Owen, Herman William

Rake, Margaret Evelyn
 Rhodes, Mary Elizabeth
 Tilden, Mary Weatherly

In Civil Engineering

Marshall, Charles Hayward, Jr.

In Electrical Engineering

Gypson, Harold Ellington

Murchison, Clinton William, Jr.

In Mechanical Engineering

Alperin, Alfred Maurice
 Bayman, Charles Richard
 Brandon, Guilbert LePage
 Dillon, Grover Lee, Jr.
 Evans, Hugh Stackhouse, Jr.
 Isenhour, Merle Edwin
 Jensen, James Allen
 Johnson, Edward Louis, Jr.

Kaley, Harry Embich, Jr.
 Long, Paul Ellsworth
 McClelland, Dean Smucker
 Saunders, Llewellyn Corwin
 Stroupe, Robert Edwin
 Widerman, William Davis
 Yautz, George Steven
 Zion, Robert William

DEGREE AWARDED JANUARY 20, 1945

LL.B. DEGREE

Morgan, Viotti Eugene

DEGREES AWARDED JANUARY 31, 1945

A.B. DEGREE

Barkwell, Jean Eleanor
 Barnhardt, Helen McGill
 Barrow, Catherine
 Beckert, Shirley Louise
 Boddie, Harriet Susan
 Coe, Jean Blair
 Cone, Patricia
 Ford, Grace Pullen
 Goodson, Elsie
 Hornaday, John Albert, Jr.
 Johnson, Natalia Kristina

Jones, Marjorie May
 Lange, Katharine Eleanor
 Olive, Betsy Ann
 Pate, Thomas Waldo
 Rosemond, Louisa Maria
 Schullen, Mildred Deppe
 Smith, Howard Kenneth
 Sprague, Marian Alice
 Stoddard, Donna Elizabeth
 Succop, Oneita Ann
 Woodard, Edna Gay

DEGREES AWARDED FEBRUARY 23, 1945

A.B. DEGREE

Adams, Gilreath Gilderoy, Jr.	Lee, Edwin Borden, Jr.
Allen, Louis Carr, Jr.	McCown, Wallace Hardin
Amphor, Francis Joseph Edward	McCreight, Paul Willard
Bailey, Edward Anthony	Moen, Roger Orin
Beaman, Nathaniel, III	Pittman, Luther Hollingsworth
Beaman, Robert Prentis, Jr.	Rickert, Robert Dale
Beaudouin, Harry Edward, Jr.	Riggall, Arch John
Beddingfield, Richard Jackson	Sedwick, Benjamin Frank
Bridgforth, Edwin Burwell	Simon, John B.
Buckley, Donald Bright	Smith, Raymond Alfred
De Vore, Leonard Horton	Smith, Rosalind Gower
Dolson, Thomas Lee Anthony	Strickman, Arthur Edwin
Gaillard, Stephen Lee	Tompkins, James K.
Gunst, Cyril Curtis, Jr.	Tuttle, James G.
Haines, George Louis, Jr.	Waters, Joe Frazier
Hale, Lewis Gordon, Jr.	Weaver, Robert Lee
Henry, William Charles	Wells, David Allen
Hopkins, Waring Carrington	Whyte, Donald Leslie
Jones, Luther Clarke, Jr.	Williams, Wade Hampton, Jr.
Joy, William Addison	Wolfe, William Raymond

B.S. DEGREE

Bennett, Edgar Bowling	Phillips, Leonard
Cole, Richard Shipley	Rivers, Charles Guy
Grimes, Gloria Lee	Saturday, Harrison Kenneth
Harkness, Richard Roland	Saunders, Robert Neal
Hennighausen, Frederick H., Jr.	Schroeder, Hobart Arthur
Kurtz, William Brownlow	Steele, Albert Johnston
Lee, Maren Theodora	Street, Walter Newbill, Jr.
Makosky, Robert Charles	Vail, Evelyn Gray
Marsh, Spinks Hamilton	Williams, Edgar Donald, Jr.
Miller, William Hugh, Jr.	

In Civil Engineering

Cooper, George James	Freeze, William Robert, Jr.
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In Mechanical Engineering

Bright, Turner Newton, Jr.	Muller, Donald Harvey
Copley, Alden Gibson	Norris, John Ernest, Jr.
Davis, William Archie, Jr.	Ornoff, Harold
Levy, J. Leo, Jr.	Rumbaugh, Frank Clayton, Jr.
Mann, Frederick L., Jr.	Van Leer, Blake Wayne

ROLL OF STUDENTS

TRINITY COLLEGE AND THE COLLEGE OF ENGINEERING

March 1, 1945-June 23, 1945

TC indicates Trinity College and EC College of Engineering. Letters denote classification: C, Civilian; N, Navy. Number shows semester in progress.

Abbott, Imly Sharp, Jr. EC N 4	Milford, Del.
Abelkop, Sheldon TC C 3	Durham, N. C.
Acton, Robert William TC N 4	Jackson, Mich.
Adams, Hunter DeWees EC N 3	Drexel Hill, Pa.
Adams, William Hester, III TC N 6	Atlantic Beach, Fla.
Adams, William Talmadge TC C 3	Hampton, Va.
Adkins, Leon McKinley, Jr. TC N 3	Schenectady, N. Y.
Adler, Sheldon Bert TC C 1	Brooklyn, N. Y.
Aiken, Franklin Dunwoody, III EC N 3	Griffin, Ga.
Alexander, Henry Clifford TC C 6	Charlotte, N. C.
Alexander, James Robert TC C 1	New Orleans, La.
Allen, Bonva Closson, Jr. TC N 6	Raleigh, N. C.
Allison, Luther Lee, Jr. TC C 5	Warrenton, Va.
Allred, William Floyd TC C 3	Rockingham, N. C.
Alpert, Eugene Oliver TC C 6	Brooklyn, N. Y.
Alt, Thomas Henry TC N 3	Washington, D. C.
Ambrose, Kenneth Eugene TC N 6	Oblong, Ill.
Anderson, Callis Jensen TC N 3	Florence, S. C.
Anderson, Charles Duane TC N 4	Lakeland, Fla.
Anderson, John Powell TC N 6	Lynchburg, Va.
Anderson, William Woodrow TC N 4	Ettrick, Va.
Angelillo, Ralph Clemens TC C 3	Newark, N. J.
Applegate, Alfred Jackson TC C 6	Clifton, N. J.
Arnold, Allen Richard EC N 7	Baltimore, Md.
Ashby, William Clay TC C 2	Mt. Airy, N. C.
Atkins, Albert Acree, Jr. TC N 4	Concord, Tenn.
Atkins, Robert Myrick TC N 7	Paragould, Ark.
Atwood, John Warren TC N 3	Winsted, Conn.
Aumen, William Charles TC C 1	Braintree, Mass.
Austin, Tollie Edward, Jr. TC C 3	Portsmouth, Va.
Aycock, Thomas Crockett, Jr. TC C 4	Washington, D. C.
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Baily, Alfred E. TC N 7	Carmichaels, Pa.
Baker, Barry TC C 2	Rocky Mount, N. C.
Baker, Sumner Erwin TC N 4	Tampa, Fla.
Bane, Allan TC C 2	Austell, Ga.
Barber, John Wilson TC C 2	Anderson, Ind.
Bargetz, William Ralph TC N 4	Akron, Ohio
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Barringer, Harold Ross TC N 5	Concord, N. C.
Barron, James Albert, Jr. TC N 4	Richmond, Va.
Battle, William C. TC C 7	State Park, S. C.
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Bean, John Douglas TC C 1	Norfolk, Va.
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Bechtold, George William EC N 4	Pittsburgh, Pa.

Becker, Harold Leo EC N 4
 Becker, William Frederick EC N 7
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 Bedinger, John F. TC N 8
 Bedinger, Neal Anderson TC N 8
 Bennett, Reginald Victor, Jr. TC N 3
 Benson, Rupert Lee, Jr. TC C 6
 Beres, Herbert TC C 7
 Bergy, Gordon Goodrich TC N 5
 Berkowitz, Ami Emanuel TC N 6
 Biancavilla, Dominick EC N 4
 Birmingham, Walter Marvin TC N 4
 Bisbe, Richard Emil EC N 5
 Bishopric, George Andrew TC N 6
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 Blackman, Thomas TC N 4
 Blackmer, William Henry TC N 4
 Blackmon, Benjamin Boinest TC C 4
 Blake, William Campbell, Jr. TC N 3
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 Bliss, William Robert TC N 3
 Bobb, William Anders TC C 6
 Bock, Paul EC N 5
 Boeckel, John Hart EC N 3
 Boger, Clarence Earl TC N 4
 Boggs, Lawrence Kennedy TC N 7
 Bogley, Claude William TC N 3
 Bonn, Marvin Charles EC N 5
 Bonner, Charles Wilbur, Jr. TC N 4
 Booth, Claude Carr EC N 4
 Borland, William Silas TC N 5
 Bortner, John Gerberick TC C 3
 Bostedor, Gerald Clare TC N 4
 Bowden, George Edwin TC C 7
 Bowdre, John Birch TC N 3
 Bowe, Walter John TC N 3
 Bowers, Gilmore TC C 2
 Bowes, William Thomas TC N 4
 Bowie, Fred Alexander EC C 4
 Bowles, Richard Morgan TC C 3
 Boyd, Benjamin F. TC C 7
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 Boyle, John Robert TC C 1
 Bozich, Anthony Michael TC N 4
 Bracey, Earl Watkins TC N 5
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 Brand, Joseph Margon TC N 3
 Brandt, Carl Richard EC N 5
 Brandt, Chester TC C 4
 Branscomb, Lewis McAdory TC N 7
 Braswell, Charles Clarence EC C 8
 Brawner, Hugh Page TC C 6
 Brennan, William Knodel TC N 3
 Britt, Clyde Lee TC C 3
 Broadfield, Ward Holt, Jr. EC N 8
 Brooks, Keith TC N 6
 Brooks, Richard Iddings, Jr. TC N 5
 Browder, Joseph Garrott EG N 8
 Brown, Bachman Storch, Jr. TC N 4

Bethlehem, Pa.
 Nutley, N. J.
 Freeport, N. Y.
 Worsham, Va.
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 Louisville, Ky.
 Wrightsville Beach, N. C.
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 Morgantown, W. Va.
 Philadelphia, Pa.
 New York, N. Y.
 Granite City, Ill.
 Brooklyn, N. Y.
 Spray, N. C.
 Durham, N. C.
 Klamath Falls, Ore.
 Falls Church, Va.
 Orangeburg, S. C.
 Tampa, Fla.
 Charlotte, N. C.
 Dickerson, Md.
 Nyack, N. Y.
 Baltimore, Md.
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 Akron, Ohio
 Birmingham, Ala.
 Friendship Heights, Md.
 Freeport, Ill.
 Richmond, Va.
 Philadelphia, Pa.
 Falls Creek, Pa.
 York, Pa.
 Detroit, Mich.
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 Macon, Ga.
 Syracuse, N. Y.
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 Alexandria, Va.
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 Morgantown, W. Va.
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 Chicago, Ill.
 La Crosse, Va.
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 Purcellville, Va.
 Louisville, Ky.
 York, Pa.
 Brooklyn, N. Y.
 Durham, N. C.
 Durham, N. C.
 Washington, D. C.
 Louisville, Ky.
 Lumberton, N. C.
 Cartersville, Ga.
 New Castle, Pa.
 Peterboro, N. H.
 Charlotte, N. C.
 Lincolnton, N. C.

- Brown, Chandler Wilcox EC N 4
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 Brown, Kenmore McManes TC N 4
 Brown, Miller French EC C 4
 Brown, Walter Lyons TC N 8
 Bruck, Thomas Joseph EC N 4
 Brunner, George Joseph TC N 3
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 Buchanan, William Edward TC C 3
 Buck, Donald Arthur EC N 4
 Buck, Lewis Alexander TC N 4
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 Burris, Robert Eugene TC N 3
 Busby, David Franklin TC N 5
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 Cameron, Angus McKay TC C 6
 Campbell, Craig Carol TC C 3
 Campbell, Lachlan Leigh TC C 4
 Cannon, Michael Leo TC N 5
 Capsalis, Aggie Manuel TC C 1
 Carmichael, Clifford EC N 8
 Carrera, Carl Henry TC C 3
 Carrier, Uel Lavon EC N 6
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 Carson, Raymond Reese EC N 3
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 Carter, Hal Dunson EC N 3
 Caviness, Joseph Edward, Jr. TC C 3
 Cecil, Bradford Hayden EC N 3
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 Chambers, Jim Alsa TC C 3
 Chapman, Thomas Louis TC C 6
 Chappell, Thomas Tye TC N 3
 Cheers, William Crockett, Jr. TC N 3
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 Chipley, Roy Marshall, Jr. EC N 3
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 Clapp, Daniel Elliott EC N 4
 Clark, George Philemon TC N 7
 Clark, Harold Andrew TC C Special
 Clark, Hubert Karl EC N 8
 Clark, Sam Lillard TC N 5
 Clark, Walter S. TC C 4
 Classen, Robert Edward TC N 4
 Clifford, Robert Keaney EC N 4
 Clowes, George Russell TC N 4
 Cocke, John EC N 7
 Cockey, James Sudler EC N 4
 Coe, Lowry Nadal, Jr. TC N 3
 Cole, Leo Lincecum EC N 3
 Coles, Jewell Rudolph EC N 3
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 Condon, Vernon William EC N 4
 Short Creek, W. Va.
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 Washington, D. C.
 Beaumont, Texas
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 W. New York, N. J.
 Springfield, Tenn.
 Lorain, Ohio
 Charleston, W. Va.
 Cincinnati, Ohio
 Norfolk, Va.
 Greenwood, Fla.
 Raleigh, N. C.
 DeFuniak Springs, Fla.
 Hamilton, Ohio
 Gas City, Ind.
 Memphis, Tenn.
 Omaha, Neb.
 Mazomanie, Wis.
 Windber, Pa.
 Vass, N. C.
 Durham, N. C.
 Charleston, W. Va.
 Gladstone, Mich.
 Durham, N. C.
 Clifton, N. Y.
 Tampa, Fla.
 Bluff City, Tenn.
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 Little Falls, N. J.
 Carthage, N. C.
 Coral Gables, Fla.
 Lillington, N. C.
 Catonsville, Md.
 Atlanta, Ga.
 Homerville, Ga.
 East Orange, N. J.
 Plainfield, N. J.
 Charlotte, N. C.
 East Pittsburgh, Pa.
 Raleigh, N. C.
 Durham, N. C.
 Richmond, Va.
 Upper Darby, Pa.
 Wilson, N. C.
 Minneapolis, Minn.
 Durham, N. C.
 Nashville, Tenn.
 Miami, Fla.
 St. Paul, Minn.
 Baltimore, Md.
 Ingomar, Pa.
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 Stevensville, Md.
 Chevy Chase, Md.
 Chattanooga, Tenn.
 Allensville, Ky.
 Clayton, N. C.
 Charleston, S. C.

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 Conrad, Edward Strickland EC N 3
 Cooke, John Henry EC N 5
 Coppin, Charles Clifford, III EC N 3
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 Corrigan, James Henry, Jr. EC N 4
 Cosby, Jack Terrell TC N 4
 Cox, William Jones TC C 6
 Credle, Edward Cecil EC N 5
 Cressman, Robert Allen EC N 4
 Crosland, Robert Elder TC N 4
 Cross, Ray Y. TC C 3
 Crowder, John Nathaniel TC N 6
 Crutcher, James Carroll TC N 5
 Cudworth, James Rowland EC N 5
 Cullis, James Woodworth TC N 3
 Curry, John Edward EC N 5
 Czerwinski, Stephen Ramsay TC N 3
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 Dailey, Henry Elwood, Jr. TC C 2
 Daley, Eugene Edward TC N 4
 Daniel, Dorsey Wharton TC C 7
 Darrow, Thomas Edward TC C 2
 Davenport, Guy Mattison TC C 1
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 Davidson, William David TC C 5
 Davis, Albert Paul TC N 3
 Davis, Wayne Edward TC N 6
 Davison, Alexander Thayer TC C 3
 DeHoff, Harold Lee EC N 3
 Dellenbarger, Lynn Edwin, Jr. TC C 1
 DeMott, Robert Bert EC N 4
 Dennerline, Fred William TC C 3
 Denton, William Henry EC N 4
 DeRogatis, Albert John TC C 1
 Dibble, James Birney TC N 6
 Dickerson, Ned TC C 2
 Dickson, Benjamin Hedgepeth TC C 7
 DiGiovanni, Ralph TC C 3
 Dixon, John Milner EC N 8
 Doran, Francis Aloysius TC N 3
 Dorsett, Hugh Jackson TC N 5
 Dorsey, John Patrick TC N 3
 Dorsey, John Phillip EC N 5
 Dorsey, William Rothwell TC N 4
 Dorton, Spero Pete TC C 6
 Douglas, Richard Sands TC C 3
 Dowe, Carl Barnard TC N 4
 Doyle, Richard Lee EC C 8
 Drabent, Eugene Alphonse TC N 5
 Drake, David Ewing TC N 3
 Dunaiski, Raymond Martin EC N 5
 Duncan, Lewis William TC C 1
 Dunham, Donnell Paul TC C 1
 Earle, James Tilghman TC C 5
 Eastman, James Weston EC N 3
 Eaton, William Mellon TC N 6
 Edwards, Arthur Anderson EC N 3
 Edwards, John Wiley EC N 3
 Einhorn, Elliot J. TC C Special

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 Alexandria, Va.
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 Ozone Park, N. Y.
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 Lynchburg, Va.
 Elizabeth City, N. C.
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 Columbus, Ohio
 Punta Gorda, Fla.
 Albany, Ga.
 High Point, N. C.
 Dover, N. J.
 Tuscaloosa, Ala.
 St. Petersburg, Fla.
 Philadelphia, Pa.
 New Haven, Conn.
 Mayesville, S. C.
 Watertown, Mass.
 Onancock, Va.
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 Anderson, S. C.
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 Duluth, Minn.
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 Salisbury, N. C.
 St. Petersburg, Fla.
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 Brooklyn, N. Y.
 Whitesburg, Ky.
 Durham, N. C.

- Eisenberg, Lloyd TC C 4
 Elder, Albert Leon, Jr. EC N 3
 Elkins, Augustus Coolidge EC N 8
 Elliott, Stuart Whitfield TC C 2
 Elliott, Thomas Ruff TC C 2
 Ellis, John, Jr. EC N 4
 Ellis, John Granbery, Jr. EC N 3
 Ellis, Robert William TC N 4
 Ellison, Warren Frederick TC N 4
 Elmendorf, Richard Arthur TC N 3
 Elrod, William Alexander TC C 2
 Engquist, John Arnold TC N 4
 Epstein, Gordon Van TC N 3
 Esling, Paul Joseph, Jr. TC N 3
 Eubanks, Otha Albert, Jr. TC N 6
 Fairy, William Arthur, II TC C 8
 Farren, William Joseph TC N 5
 Faulkner, Doc George, Jr. EC N 3
 Feiring, Bruce Clifford TC N 3
 Fenno, John Starkweather TC N 3
 Fenstermacher, Robert James TC N 7
 Ferdinand, Thomas Francis EC N 3
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 Fieldson, Jack Wilbur TC C 2
 Fine, Ephraim Allan TC C 2
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 Fisher, John Eastham TC N 3
 Fisher, John Miller, Jr. TC N 3
 Fitzpatrick, Julius Way TC N 5
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 Flowe, Benjamin Hugh TC N 6
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 Fogle, Richard DeWitt TC C 1
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 Ford, Everett Wilson TC N 4
 Ford, Harold Edwin TC C 1
 Foshee, Charles Newell TC C 4
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 Foxtton, Frederick Leon TC N 3
 Foy, Thomas Franklin EC N 3
 France, Roy Holroyd EC N 6
 Francis, Everett Warren TC N 4
 Frate, Domenico Carlo EC N 5
 Freedman, William EC C 7
 Freeze, Jack Edward TC C 1
 Friauf, Robert James TC N 3
 Friedli, Ernest Karl EC N 4
 Friend, Fred Erwin TC N 3
 Frisch, Joseph EC C 5
 Fritts, George Printice, Jr. TC N 3
 Frizzelle, John Lloyd, Jr. TC C 6
 Fuchs, Francis Joseph TC C 2
 Furst, William Dunton TC N 5
 Gadd, Luther Damon TC N 4
 Gaffney, George W. TC N 8
 Gamble, Bryant Oswald TC C 2
 Garcia de Quevedo, Guillermo TC C 2
 Gardner, Robert Randolph EC N 3
 Gardner, William Henry, Jr. EC N 8
 Garey, Robert Lee TC C 1
 Philadelphia, Pa.
 Bel Alton, Md.
 Durham, N. C.
 Charlotte, N. C.
 Pt. Wentworth, Ga.
 Pass Christian, Miss.
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 Philadelphia, Pa.
 Hinton, W. Va.
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 Wildwood, N. J.
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 McKees Rocks, Pa.
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 Nashville, Tenn.
 Roanoke Rapids, N. C.
 Cape May Ct. House, N. J.
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 Concord, N. C.
 Virginia Beach, Va.
 Durham, N. C.
 Armington, Ill.
 Albemarle, N. C.
 Richmond, Ind.
 Rocky Mount, N. C.
 Oaklyn, N. J.
 Silver Creek, N. Y.
 Richmond, Va.
 Spartanburg, S. C.
 Wilmington, Del.
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 Laurenceburg, Tenn.
 Durham, N. C.
 Marathon, N. Y.
 Durham, N. C.
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 Centreville, Md.
 Tampa, Fla.
 Baltimore, Md.
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 Columbia, Tenn.
 Edenton, N. C.
 Benton Harbor, Mich.

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Gatling, James Edward	TC C 1	Norfolk, Va.
Gatling, Myrlon Lydon	TC C 4	Norfolk, Va.
Gaumnitz, Gordon Arthur	TC C 8	Washington, D. C.
Geier, John Joseph	EC N 5	Rochester, N. Y.
Gerke, John Royal	TC N 4	Charlotte, N. C.
Gerstein, Joe Willie	TC C 3	Covington, Ga.
Gilbert, Olin Englar, Jr.	EC N 3	Baltimore, Md.
Gilpin, Roy Edwin, Jr.	TC N 5	Carson, Iowa
Gimbernath, Rogers Wallace	TC N 3	Rahway, N. J.
Glass, Gordon	TC C 3	Plainfield, N. J.
Glos, Richard Corbin	TC C 6	Tampa, Fla.
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Goode, John Ronald, Jr.	EC N 3	Nashville, Tenn.
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Gorsuch, Thomas Leonard	TC N 3	Baltimore, Md.
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Gray, Glenn Monroe	TC C 2	Charleston, S. C.
Gray, Harry Williams	TC N 6	Poolesville, Md.
Gray, Irving Smith	TC C 2	Freeport, N. Y.
Greenman, Harlan Ray	EC N 4	Battle Creek, Mich.
Greenwald, Frank Stafford	TC N 8	Gary, Ind.
Greenwald, Robert Clark, Jr.	EC N 7	Norfolk, Va.
Gresham, Rex Maynard	TC N 6	Oklahoma City, Okla.
Griese, Harry Frank, Jr.	EC N 5	Cincinnati, Ohio
Griffeth, Leon Clifford	TC C 6	Holmes, N. Y.
Griffin, Edwin Newsom	TC C 2	Roanoke, Va.
Griffin, Eugene Wilson, Jr.	EC N 3	Hamlet, N. C.
Griffin, Russell Edward	TC N 4	Battle Creek, Mich.
Griffith, James Leo	TC N 4	Hambleton, W. Va.
Griffith, Norman Early, Jr.	EC N 4	Charlotte, N. C.
Griggs, Eugene Schenck	TC C 6	New Brunswick, N. J.
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Grose, George Benedict	TC C 2	St. Paul, Minn.
Grubb, John Gilbert, Jr.	EC N 7	Norfolk, Va.
Gruber, Sol	EC N 5	New York, N. Y.
Guida, Stellario John	TC N 4	New York, N. Y.
Gupton, John William	EC N 3	Nashville, Tenn.
Gurley, Elbert Luther	EC N 3	Lenoir, N. C.
Gurley, Joseph Grafton	EC N 3	Richmond, Va.
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Hall, Rudolph Hamilton	TC N 4	Dahlgreen, Va.
Halliday, William Neil	TC N 2	Columbus, Ohio
Hamilton, Charles Mitchell	TC N 5	Nashville, Tenn.
Hamilton, Neill Quinn	EC N 4	Pittsburgh, Pa.
Hammett, Gordon Charles, Jr.	EC N 3	San Francisco, Calif.
Hampton, George Forrest	EC N 3	Signal Mt., Tenn.
Hampton, William Edgar	TC C 2	Durham, N. C.
Hanbury, Euclid Murden, Jr.	TC N 5	Portsmouth, Va.
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Haninger, Glenn James	TC N 6	Cicero, Ill.
Hanni, Herman Squire	TC N 4	Painesville, Ohio
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Hardman, Wallace Jackson	EC N 3	Glennville, W. Va.
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Harlan, Billy Orner	TC N 4	Milton, Pa.
Harleston, Robert Haig, Jr.	TC C 4	Charleston, S. C.

- Harrington, Thomas Sidney TC N 3
 Hastings, Richard Owen EC N 4
 Hattaway, James Herbert TC C 8
 Haun, Warren Scott EC N 3
 Havens, Robert Schiller TC N 3
 Hayden, Daniel Lee TC C 3
 Hayes, Leonidas Braxton, Jr. TC N 3
 Heath, John William TC C 1
 Helgason, Hordur TC C 7
 Hemingway, Clifford Ervin TC C 3
 Henderson, Jesse James, Jr. TC C 6
 Henry, William Theron EC N 3
 Herbst, Robert Taylor TC N 6
 Hersman, George Jacob EC N 4
 Hewett, Ertle Bellamy EC N 3
 Hiebert, Talmage Gordon TC C Special
 Higginbotham, William Edward TC N 5
 Hill, Charles Edward EC N 3
 Hill, James Gilland EC C 3
 Hine, Butler Preston, Jr. EC N 3
 Hinson, William Talmadge, Jr. TC C 3
 Hipple, Harris Blair EC N 8
 Hodgkins, Norris Lowell TC N 4
 Hodson, Thomas Sherwood TC N 3
 Hoehl, John Robert TC N 8
 Hofmeister, George Carl EC N 4
 Hogan, John Thomas TC C 1
 Hoke, George Clayton EC N 4
 Holder, Clarence Perry EC N 5
 Holesa, Paul E. TC C 1
 Holland, Ray Walter EC N 4
 Hollister, Charles Curtis TC C 2
 Holloway, William Horace TC C 5
 Holmes, Brandon McConnell EC N 4
 Holroyd, William Casper TC C 3
 Holt, Bevley Dan EC N 3
 Holtan, Hans Olaf TC C 2
 Holton, Holland Young TC C 7
 Holzinger, George Cherot TC C 1
 Holzwarth, Richard Jacob TC C 1
 Homan, Henry H. TC C 4
 Hood, Richard Thornton TC N 8
 Hooper, Glenn Lee, Jr. TC C 2
 Hopkins, James Ira TC C 2
 Horowitz, Nathan TC C 1
 Houk, Joseph Thomas TC N 6
 Houtman, John Francis, Jr. EC N 3
 Houtz, Jesse Frank TC C 2
 Howerton, Beverly Rosyster TC C 6
 Hudkins, Malcolm Everett EC N 4
 Hudson, Homer TC C 2
 Hudson, Ralph Fletcher TC N 6
 Huffman, John Wesley TC C 7
 Hughes, Lawrence Josiah TC N 4
 Hull, Ezekiel Hoover TC C 3
 Humphrey, Robert LeRoy EC N 3
 Humphreys, Charles Wesley TC N 6
 Hunter, James Anderson TC N 4
 Hunter, William Cecil, Jr. EC N 3
 Hutchinson, Ronald Lee EC C 5
 Henderson, N. C.
 Chattanooga, Tenn.
 Greensboro, N. C.
 Memphis, Tenn.
 Jordan, N. Y.
 Huntington, W. Va.
 Greensboro, N. C.
 Beaufort, N. C.
 Isafjordur, Iceland
 Andrews, S. C.
 Wendell, N. C.
 Arlington, Va.
 Charleston, S. C.
 Grand Rapids, Mich.
 Wilmington, N. C.
 Bakersfield, Calif.
 Shreveport, La.
 Ridley Park, Pa.
 Bronxville, N. Y.
 Decatur, Ala.
 Marshville, N. C.
 Spring City, Pa.
 Southern Pines, N. C.
 Hendersonville, N. C.
 Coral Gables, Fla.
 Pittsburgh, Pa.
 Durham, N. C.
 Claremont, N. C.
 Blakely, Ga.
 Mount Union, Pa.
 Afton, Tenn.
 Ft. Lauderdale, Fla.
 Hondo, Texas
 Statesville, N. C.
 Greenwood, S. C.
 Milan, Tenn.
 Westerleigh, N. C.
 Durham, N. C.
 Larchmont, N. Y.
 Cincinnati, Ohio
 Lebanon, Pa.
 Kinston, N. C.
 Dunn, N. C.
 Baltimore, Md.
 Wilmington, N. C.
 Indianapolis, Ind.
 Clayton, Del.
 Fayetteville, N. C.
 Durham, N. C.
 Baltimore, Md.
 High Point, N. C.
 Mt. Morris, Ill.
 Huntington, W. Va.
 Quincy, Ill.
 Reidsville, N. C.
 Baltimore, Md.
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 Richmond, Va.
 Phoenix, Ariz.
 Duncan, W. Va.

- Hutto, Clinton Brunson TC N 2
 Hutton, William Caldwell EC N 3
 Hutson, Edward Douglas TC C 1
 Hyde, Edward William TC C 2
 Imhoff, John Leonard EC N 7
 Inman, Walter Griffey TC N 3
 Irlbacher, John Michael TC C 1
 Irwin, Frank Moore EC N 8
 Jacobs, Ralph William TC N 6
 Jahnke, William Robert EC N 4
 Jarvis, Hallett Ward TC C 6
 Jernigan, George Julius, Jr. TC C 2
 Jerome, Henry London EC N 5
 Jeske, Richard John EC N 3
 Jilcott, Clarence Poe EC N 6
 Johnson, Charles Thomas TC C 2
 Johnson, Eugene Blair TC C 2
 Johnson, John Nasbitt TC N 3
 Johnson, Ragnar Edwin TC C 2
 Jones, Howard Bird TC C 1
 Jones, Tenley Moon TC N 3
 Josey, John Speir TC C 4
 Jouannet, Francis Lionel, Jr. TC C 1
 Judge, Richard Bernard EC N 4
 Jules, Philip TC N 7
 Kagarise, Ronald Eugene TC N 3
 Kea, Kirk Ira EC N 4
 Keller, Robert Taylor TC C 3
 Keller, William Slotterback TC C 3
 Kelly, James Gerald EC N 8
 Kelly, John Vincent EC N 5
 Kennedy, Auddie Conway TC C 1
 Kerr, William John, III TC C 5
 Kidd, Charles Wyndham TC N 4
 Kimbrell, Jay Edward TC C 3
 Kimbrell, Odell Culp, Jr. TC C 3
 Kimbrough, William Clark TC C 2
 Kimpflen, Joseph Francis EC N 4
 Kindler, Jack TC C 1
 King, Joseph Calvin EC N 6
 Kingery, L. Byron TC C Special
 Kirk, Robert Louis TC C 5
 Kirkpatrick, Ronald Eugene EC N 3
 Kirstein, Leroy Phillip TC N 4
 Klaaren, Hobart Ernest TC N 6
 Klein, Morton EC N 5
 Kline, William Rexroad TC N 3
 Kloss, Lester Kenneth TC N 4
 Knoble, John Leonard, Jr. EC N 4
 Knotts, Ernest Mack TC N 7
 Knotts, James Terrell TC C 1
 Koenig, Elmer August EC N 5
 Koffenberger, Edward L. EC N 4
 Kowalski, Ludwig Robert EC N 3
 Kriser, Louis EC N 3
 Krisza, John, Jr. TC N 5
 Kruse, Richard Harry TC C 2
 Kuhlman, Ormand Frederick EC N 5
 Kulow, Frederick Charles TC N 5
 Kunkle, Craig Boyer TC C 2
 Perry, S. C.
 Collierville, Tenn.
 Charleston, S. C.
 New York, N. Y.
 Baltimore, Md.
 Paris, Tenn.
 Mamaroneck, N. Y.
 Raleigh, N. C.
 Plainfield, N. J.
 Pittsburgh, Pa.
 Charleston, S. C.
 Brunswick, Ga.
 Pittsboro, N. C.
 Westfield, N. J.
 Kelford, N. C.
 Red Springs, N. C.
 Brooklyn, N. Y.
 Clay, Ky.
 Charleston, S. C.
 Clearwater, Fla.
 Washington, D. C.
 Bartow, Ga.
 Shaker Heights, Ohio
 Wilmington, Del.
 Los Angeles, Calif.
 Roaring Spring, Pa.
 Richmond, Va.
 Avon Park, Fla.
 Mowry, Pa.
 Durham, N. C.
 Jackson Hts., N. Y.
 Henderson, Ky.
 Durham, N. C.
 Winthrop, Mass.
 Durham, N. C.
 Durham, N. C.
 Baton Rouge, La.
 Philadelphia, Pa.
 Passaic, N. J.
 Leaksville, N. C.
 White Plains, N. Y.
 Philadelphia, Pa.
 Covington, Ky.
 Norfolk, Va.
 Chicago, Ill.
 New York, N. Y.
 Washington, D. C.
 Sharon, Pa.
 Phillipsburg, N. J.
 Albemarle, N. C.
 Albemarle, N. C.
 Libertyville, Ill.
 Wilmington, Del.
 Belleville, N. J.
 Brooklyn, N. Y.
 McKees Rocks, Pa.
 Plymouth, N. C.
 Elmore, Ohio
 Milwaukee, Wisc.
 Johnstown, Pa.

- Kyle, Joe Merrill TC N 3
 Laakso, Leslie Raymond TC N 5
 Lamb, Warren Stacy TC N 5
 Land, Morton Lewis TC C 3
 Landis, Richard Vincent EC N 4
 Landon, Donald Omar TC C 4
 Lane, John Goethe, Jr. TC N 6
 Lange, Carl James TC N 6
 Lankford, Wilbur Chapman TC C 5
 Lapp, Robert Edward TC C 3
 Larkin, Israel Shirk EC N 4
 LaRue, Jim Elmer TC N 6
 Latimer, Starr Orion EC N 4
 Lauro, Vito John TC N 6
 Laushey, Clyde Shaw, Jr. TC N 4
 Lawless, Joseph Thomas, III EC N 3
 Lear, Robert Evans TC N 4
 Lee, James Harold TC C 3
 Lee, Joseph Martin, Jr. EC N 4
 Leigh, Robert Edward, Jr. TC C 8
 Leinung, John Gustave TC N 4
 Leisy, James Franklin TC C 3
 Leisy, Melvern Krehbiel TC C Special
 Leitheiser, William John TC C 8
 Lent, Robert Eugene EC N 5
 Lentz, John Franklin TC C 3
 Letters, Howard Wesley TC N 3
 Lieving, Robert Edgar EC N 4
 Lilly, Edward Charles TC N 4
 Lindsey, Willis Callaway, Jr. TC C 3
 Linker, Edward Markham EC N 3
 Lipscomb, Tommy Smith EC C 3
 Lipsitz, Lee Stanley TC C 6
 Little, Martin Frank TC C 1
 Llewellyn, Linus William EC N 3
 Lockhart, David Kelly EC C 6
 Loftin, Horace Greeley TC C 3
 Logan, Robert Henry, Jr. TC N 3
 Long, Frederick LeRoy TC N 4
 Longley, Clarence Mobley, Jr. TC N 4
 Loucks, Robert LaMonte TC C 4
 Love, Frank Swindell TC C 6
 Love, Nash Monroe EC N 5
 Lowe, Donald Scott TC N 5
 Lucas, Stephen John TC N 6
 Lundstrom, George Henry TC N 4
 Luttrell, John Lore EC N 3
 Lyster, James Gilbert, Jr. TC N 7
 Lynch, George Cunningham TC N 3
 Lyon, William H., Jr. TC C 2
 McCall, William TC N 6
 McCannless, Edgar Eugene TC C 8
 McCarrick, Addison Taylor EC N 4
 McClamroch, William Porter TC C 3
 McCloskey, William Francis TC N 4
 McCoy, John Philip EC N 3
 McDaniel, Earl Jay TC C 1
 McDonald, John Erle, Jr. TC N 5
 McDonald, Raymond Oswald, Jr. TC N 5
 McDonald, William Maddox TC N 6
 Tacoma Park, Md.
 Eben Junction, Mich.
 William Island, Neb.
 Baltimore, Md.
 New Holland, Pa.
 Durham, N. C.
 Jacksonville, Fla.
 Oil City, Pa.
 Elon College, N. C.
 Irvington, N. J.
 St. George, Utah
 Clinton, Okla.
 St. Petersburg, Fla.
 Brooklyn, N. Y.
 Petersburg, Va.
 Norfolk, Va.
 Columbus, Ohio
 Charlotte, N. C.
 Erwin, N. C.
 Kinston, N. C.
 Bronx, N. Y.
 Dallas, Tex.
 Dallas, Tex.
 Clearwater, Fla.
 Minneapolis, Minn.
 Ellerbe, N. C.
 Crafton, Pa.
 Mason, W. Va.
 New Orleans, La.
 Washington, Ga.
 Chapel Hill, N. C.
 Angier, N. C.
 Ahoskie, N. C.
 Albemarle, N. C.
 Chattanooga, Tenn.
 Durham, N. C.
 Beaufort, N. C.
 Seaford, Del.
 Lennon, Mich.
 Orlando, Fla.
 Baltimore, Md.
 Lake Junaluska, N. C.
 Charlotte, N. C.
 Key West, Fla.
 Beaverdale, Pa.
 New York, N. Y.
 Memphis, Tenn.
 Jacksonville, Fla.
 Hillsboro, N. C.
 Creedmoor, N. C.
 Winston-Salem, N. C.
 Canton, Ga.
 Philadelphia, Pa.
 Durham, N. C.
 New Brunswick, N. J.
 Mt. Pleasant, Tenn.
 Richmond, Va.
 Norfolk, Va.
 Tampa, Fla.
 Washington, D. C.

- McGowan, Keith Dunham EC N 6
 McGreevey, Robert Dillon TC N 3
 McHugh, Kenneth Laurence EC N 3
 McIver, Robert Norton TC N 4
 McKee, William David EC N 6
 McKenzie, Thomas Marshall, Jr. EC N 3
 McKinley, Charles Alexander TC N 5
 McKinnon, Arnold Borden TC C 2
 McKinnon, Cyril John TC C Special
 McLarty, Colin Slator EC N 4
 McLaughlin, Harold Joseph TC N 3
 McMurrin, William Royall EC N 8
 McMurray, Samuel Franklin EC N 5
 Madlon, Eugene August EC N 3
 Magee, William Edwin TC C 1
 Maginnin, James Barrett TC N 5
 Mairs, Daniel Atlee TC N 3
 Malcolm, Robert Samuel TC C 5
 Malloy, Justin Warren TC N 3
 Manning, Walter Harold TC N 7
 Markey, John Joseph EC C 8
 Martin, Francis Benedict, Jr. EC N 3
 Martinat, Edwin Henry TC N 6
 Maruschak, Peter EC N 5
 Massi, Arthur Carmen, Jr. TC N 3
 Masson, James E. TC C 3
 Masters, Richard Warren EC N 5
 Mathers, Robert Wesley TC C 1
 Mathis, William Lowrey EC N 3
 Mathisen, Glenn Estes TC N 4
 Mathison, George Haakon TC C 2
 Matzen, Robert T. TC N 4
 Mayo, Joseph Dixon, Jr. TC N 5
 Meade, Richard Allen TC N 4
 Meadows, Richard Lynn TC N 3
 Meek, James Monroe, Jr. TC N 4
 Meekins, James Claiborne EC N 3
 Megroz, Pierre Roger TC N 3
 Melero, Andres T. TC C 4
 Menna, Joseph EC N 5
 Mesce, Louis Michael TC C 2
 Messer, Henry Davis TC C 3
 Messenger, Arthur Louis, Jr. TC N 7
 Metz, Mervin TC C 1
 Millenson, Donald Harvey EC N 4
 Miller, James Herbert, Jr. TC C 3
 Miller, Jesse Edward TC N 4
 Miller, Kenneth Elwood TC N 6
 Miller, Norman Maurice TC N 3
 Miller, Richard Hershey EC N 3
 Miller, William Henry, Jr. TC N 3
 Millican, Abel Goaldmun, Jr. EC N 4
 Milone, Robert Louis EC N 3
 Mirabito, Thomas William EC N 3
 Mishler, Alston Herbert TC N 4
 Mitchell, John William EC N 4
 Moores, Charles John TC N 4
 Moore, Elliott Lafayette TC C 1
 Morgan, Everett Lee TC C 2
 Morgan, James LeRoy TC N 6
 Waycross, Ga.
 Garden City, N. Y.
 New York, N. Y.
 Richmond, Va.
 Forest Hills, N. Y.
 Memphis, Tenn.
 Siloam, Ga.
 Lumberton, N. C.
 Detroit, Mich.
 Swarthmore, Pa.
 Freeport, N. Y.
 Norfolk, Va.
 Tampa, Fla.
 Ferdinand, Ind.
 McColl, S. C.
 Baltimore, Md.
 Charleston, W. Va.
 Dayton, Ohio
 Washington, D. C.
 Miami, Fla.
 Washington, Pa.
 Clarksburg, W. Va.
 Lenoir, N. C.
 Altoona, Pa.
 Bristol, Pa.
 Central Igualdad, P. R.
 Hershey, Pa.
 Coral Gables, Fla.
 Memphis, Tenn.
 Norfolk, Va.
 Queens Village, N. Y.
 Grand Island, Neb.
 Henderson, N. C.
 Flint, Mich.
 Knoxville, Tenn.
 Knoxville, Tenn.
 High Point, N. C.
 Mt. Vernon, N. Y.
 Puerte de Tierra, P. R.
 New Haven, Conn.
 Newark, N. J.
 Madison, Fla.
 Chicago, Ill.
 Huntington, Pa.
 Denver, Colo.
 Morehead City, N. C.
 Graceville, Fla.
 Sacramento, Calif.
 Washington, D. C.
 Glenside, Pa.
 Chicago, Ill.
 Arlington, Tex.
 Livingston, N. J.
 Santa Monica, Calif.
 Cleveland, Ohio
 Duluth, Minn.
 Covington, Ky.
 Sarasota, Fla.
 Salisbury, N. C.
 Norfolk, Va.

- Morgan, Paul Justice TC N 4
 Morgan, Raymond James EC N 3
 Morris, Howard Franklin TC C 1
 Morris, Russell Miller EC N 3
 Morse, Eldon L. TC C Special
 Mote, Henry Kelley TC C 7
 Moye, Chester Lewis TC C Special
 Mullen, Harris Hopkins TC N 5
 Mulvey, Edward Thomas EC C 3
 Munro, Bursell G. TC N 5
 Murff, James Theo EC N 4
 Murphy, Alvin Rush, Jr. EC N 5
 Murphy, James Fred EC N 4
 Murray, Donald, Jr. EC N 3
 Murrell, Charles D TC N 4
 Muscheck, Charles Otto EC N 4
 Myerberg Alvin Jerome TC C 3
 Myers, Robert Eugene TC N 6
 Nagle, Clifford Albert, Jr. EC N 4
 Napier, Baxter Wilson, Jr. EC N 5
 Nash, James Frank, Jr. TC C 4
 Neely, Aaron Buford EC N 4
 Neudecker, Joseph Wheeler, Jr. EC N 3
 Newell, Bruce, Jr. TC C 2
 Newell, Ernest Tittle TC C 3
 Newman, Ernest Gustave TC N 5
 Newman, Van Talberg, Jr. TC C 3
 Newsome, George Hassell TC N 4
 Newton, Ernest Cliborne TC N 6
 Newton, Robert Lee TC N 7
 Nickerson, Marcus Franklin, III T C N 6
 Nist, Donald Edward TC N 6
 Noon, Joseph Francis EC N 4
 Nordin, Warren Alfred TC N 6
 Nordstrom, Frank B. TC N 6
 Norris, Robert Willingham EC N 8
 Northup, Aldrich Holt TC N 7
 Oakes, Burton David TC N 4
 Oakley, Bill Thompson EC N 3
 O'Briant, Paul William, Jr. TC N 3
 O'Connor, James Benjamin TC C 3
 O'Hara, John Joyce TC N 3
 Olsen, John Hardman TC N 3
 O'May, Robert Russell TC N 4
 O'Neill, David Henry, Jr. EC N 3
 Ormondroyd, Edwin Joseph TC N 4
 Ostendarp, George William EC N 3
 Oyen, William TC N 6
 Pace, Thomas Marshall TC C 7
 Page, Ernest Benjamin, Jr. TC N 6
 Page, Robert Lionel TC N 6
 Park, Una Foster TC N 6
 Parr, Ross Clayton TC N 6
 Pasquinelli, Leo John EC N 5
 Patrick, William Franklin TC N 6
 Patton, Michael Franklyn TC N 6
 Paulson, Theodore Bill TC N 5
 Paytash, Joseph, Jr. TC N 6
 Pearce, William Beacham EC N 3
 Pearlson, Raymond EC N 4
 Kernersville, N. C.
 Seattle, Wash.
 Greensboro, N. C.
 Harrisonburg, Va.
 Durham, N. C.
 Hapeville, Ga.
 Washington, D. C.
 Tampa, Fla.
 Greensboro, N. C.
 Miami, Fla.
 Calhoun City, Miss.
 Knoxville, Tenn.
 Euclid, Ohio
 Roanoke, Va.
 Portsmouth, Va.
 Philadelphia, Pa.
 Baltimore, Md.
 Clinton, Ill.
 New Brunswick, N. J.
 Louisville, Ky.
 Alderson, W. Va.
 Cookeville, Tenn.
 Memphis, Tenn.
 Roxboro, N. C.
 Bryson City, N. C.
 Pensacola, Fla.
 Sumter, S. C.
 Tarboro, N. C.
 Skipwith, Va.
 Durham, N. C.
 Knoxville, Tenn.
 Chicago Hts., Ill.
 Baltimore, Md.
 La Grange, Ill.
 Glen Elyn, Ill.
 Chattanooga, Tenn.
 Pensacola, Fla.
 Greensboro, N. C.
 Nashville, Tenn.
 Washington, D. C.
 Chauncey, Ga.
 Washington, D. C.
 Wilmington, N. C.
 Chicago, Ill.
 Memphis, Tenn.
 Woonsocket, R. I.
 Baltimore, Md.
 Chicago, Ill.
 Pensacola, Fla.
 Raleigh, N. C.
 Erick, Okla.
 Columbia, Tenn.
 Kalamazoo, Mich.
 Baltimore, Md.
 St. George, S. C.
 Spartanburg, S. C.
 Newaygo, Mich.
 Lafferty, Ohio
 Greenville, S. C.
 Arverne, N. Y.

Peeples, Paul Wiggins TC C 3
 Pelletier, Jere Walter TC N 2
 Penick, Edward Crenshaw TC N 5
 Pennington, Donald Bond EC N 5
 Pennington, Schuyler Wayne TC C 6
 Penske, Herbert Willis EC N 3
 Perini, Edward Paul EC C 3
 Perwein, Robert Lewis EC C 3
 Peters, James Edward TC N 5
 Petersen, Charles Andrew TC N 6
 Petraitis, Tony EC N 4
 Pfeffer, Louis Roland EC C 3
 Phelps, Harry C., Jr. TC C 2
 Piccone, Domenic TC N 6
 Pierce, John Everett, Jr. TC C 3
 Pierce, Walter Morgan TC C 1
 Pixley, John Seymore TC N 4
 Plosica, Robert Raymond EC C 3
 Plunkett, Robert Dale TC N 5
 Plutshack, Charles L. TC N 4
 Pool, Stedman Charles TC C 6
 Pope, Warren Harold TC C 4
 Porter, David Gordon TC C 3
 Posavec, John J. TC C 2
 Powell, Harry Rutter EC N 8
 Pratt, Edmund Taylor, Jr. EC N 3
 Presson, James Roy, Jr. TC C 5
 Presson, Steve Hunter TC C 3
 Preston, John Edward TC N 3
 Price, Alfred Barney TC C 5
 Price, David John, Jr. TC N 4
 Procopion, Samson John EC N 8
 Proctor, James Wardwell, Jr. TC N 3
 Progler, Harry Smith EC N 5
 Ptaschinski, George Howard EC N 3
 Putnam, Gerrie Price TC N 4
 Pyne, Thomas Charles TC N 6
 Quinn, Amory Edward, Jr. TC N 5
 Rabenberg, Jack Rodney TC N 6
 Ragsdale, Lee Morris EC N 5
 Rains, James Breer EC N 4
 Ramey, Robert Lee EC N 8
 Rankin, William Charles EC N 3
 Ranon, Severin Donald EC C 7
 Raper, William Burkette TC C 3
 Ratcliff, James Calvin TC C 3
 Rawlings, George McGee TC C 2
 Raymond, Harry Paul TC C 3
 Regester, Robert Thomas TC C 4
 Reid, Paul Richard EC N 5
 Remer, Bertram Robert EC N 5
 Rentz, Thomas Eugene TC C 6
 Repoxis, Henry TC N 4
 Reynolds, James Taylor TC C 2
 Rhodes, Verne, Jr. TC C 2
 Ridenhour, Ernest Winford TC N 3
 Riegel, George Wayne TC N 4
 Rigsbee, Albert Vinson TC N 6
 Rigsbee, John Taylor EC N 3
 Ritchie, James Sutton EC N 3

Estill, S. C.
 Maysville, N. C.
 Hopkinsville, Ky.
 York, Pa.
 Mt. Holly, N. C.
 Cheverly, Md.
 Stewartsville, N. J.
 San Antonio, Tex.
 Cambridge, Mass.
 Elgin, Ill.
 Chicago, Ill.
 St. Albans, N. Y.
 Crestview, Fla.
 Ardmore, Pa.
 Daytona Beach, Fla.
 Coral Gables, Fla.
 West Haven, Conn.
 Irvington, N. J.
 Fowler, Ind.
 Milwaukee, Wisc..
 Norfolk, Va.
 Bordentown, N. J.
 Lenoir, N. C.
 Halifax, Pa.
 Norfolk, Va.
 Elkton, Md.
 Newport News, Va.
 Monroe, N. C.
 Cheverly, Md.
 Dublin, Ga.
 Northumberland, Pa.
 Waterbury, Conn.
 Scarsdale, N. Y.
 Clarksburg, W. Va.
 Newark, N. J.
 Washington, D. C.
 Pittston, Pa.
 Birmingham, Ala.
 Lime Spring, Iowa
 Knoxville, Tenn.
 Sewickley, Pa.
 Middleton, Ohio
 Charlotte, N. C.
 Irvington, N. J.
 Middlesex, N. C.
 Winston-Salem, N. C.
 Lookout Mt., Tenn.
 Collingswood, N. J.
 Baltimore, Md.
 Pasagoula, Miss.
 Miami Beach, Fla.
 Columbus, Ga.
 Detroit, Mich.
 Plainfield, N. J.
 Asheville, N. C.
 Albemarle, N. C.
 Edgerton, Va.
 Durham, N. C.
 Durham, N. C.
 Charlottesville, Va.

- Roach, Francis L. TC N 6
 Roach, Henry Herman, Jr. TC N 4
 Roberts, Levi James TC N 7
 Roberts, William Edgar TC N 3
 Robertson, Arthur Burdett TC C 1
 Robin, Clayton, Jr. TC N 3
 Robinson, Grover Cleveland EC N 3
 Robinson, Harry Delmer, Jr. EC C 9
 Robinson, James Brown TC N 4
 Robinson, John Herbert TC N 3
 Robinson, Ted Hansen TC C 3
 Roellke, Robert Louis TC C 4
 Rogers, Kale Eugene TC N 5
 Rogers, Ralph Peele, Jr. TC N 6
 Rosenberg, Jac Alfred TC C 1
 Rosenberg, Walter Daniel, Jr. EC N 3
 Rosenfeld, Leon Victor TC C 2
 Ross, Donald Melvin EC N 3
 Ross, Walter Lee EC N 5
 Rosson, Roland Broaddus, Jr. TC N 4
 Rothey, Donald Calvin TC C 2
 Rothwell, Robert Joseph TC N 3
 Rowe, Frank Hammett, Jr. EC N 8
 Rowe, Joshua Tillman EC N 5
 Rudisill, Jennings Bryan, Jr. TC C 1
 Russell, Donald, Jr. EC C 6
 Russell, George Thompson EC C 6
 Ruszkiewicz, Joseph Francis TC N 5
 Rutland, Richard Oliver, Jr. TC N 5
 Sakas, Joseph EC N 3
 Sapp, Earle Walter, Jr. TC N 4
 Sauceman, Wayland Harris TC N 3
 Saunders, Frank Wendell EC C 6
 Sayre, Clifford LeRoy, Jr. EC N 3
 Scahill, Thomas J. TC N 5
 Scanlon, William John EC N 7
 Schenck, David EC N 3
 Schick, Philip Martin TC C 1
 Schlie, Roland Wendal EC N 5
 Schuler, Edwin Denby TC N 5
 Schutz, Edgar Kenneth TC N 4
 Schwartz, Richard Daniel EC N 5
 Schweinfurth, Joseph David TC N 7
 Scott, Howard Blake TC C 3
 Scott, Robert Lorne TC N 3
 Scott, Walter, Jr. TC N 7
 Scott, William Edward, Jr. TC N 5
 Scupine, William Frederick TC C 1
 Seabury, John Webster EC N 3
 Sealy, Leuco Benjamin, Jr. TC N 4
 Seay, James Lee TC C 3
 Seay, James Samuel TC N 4
 Seese, Robert Morrison TC C Special
 Semmes, Granville Martin TC N 3
 Settle, Edward Alfred TC C 2
 Seymour, Robert Edward, Jr. TC N 8
 Shaffer, John Taylor TC C 2
 Shapiro, Henry Leon EC N 4
 Shapiro, Oscar William TC C 3
 Sharkey, Edward Joseph TC C 3
 Chicago, Ill.
 Raleigh, N. C.
 Norfolk, Va.
 Watertown, N. Y.
 Rutherfordton, N. C.
 White Plains, N. Y.
 Chattanooga, Tenn.
 Winchester, Va.
 Richmond, Va.
 Marshalltown, Iowa
 Shreveport, La.
 Maplewood, N. J.
 Centralia, Ill.
 Durham, N. C.
 Atlanta, Ga.
 Norfolk, Va.
 Fayetteville, N. C.
 Baltimore, Md.
 Baltimore, Md.
 Washington, D. C.
 Elizabeth, Pa.
 Boston, Mass.
 Washington, D. C.
 Baltimore, Md.
 Charlotte, N. C.
 Hamden, Conn.
 Hamden, Conn.
 Passaic, N. J.
 Eufaula, Ala.
 Clairton, Pa.
 Washington, D. C.
 Mohawk, Tenn.
 Reidsville, N. C.
 Arlington, Va.
 Kansas City, Mo.
 Endicott, N. Y.
 Greensboro, N. C.
 Cos Cob, Conn.
 Elgin, Ill.
 Florence, S. C.
 Winchester, Va.
 Washington, D. C.
 Bellefontaine, Ohio
 Greensboro, N. C.
 Erie, Pa.
 Baltimore, Md.
 Brooklyn, N. Y.
 Miami, Fla.
 Guilford College, N. C.
 Chester, S. C.
 Spencer, N. C.
 Columbia, Va.
 Denton, Md.
 Memphis, Tenn.
 Garden City, N. Y.
 Greenwood, S. C.
 Baltimore, Md.
 Brooklyn, N. Y.
 Newark, N. J.
 Arcadia, Fla.

- Sharpe, Edward Robbin TC C 2
 Shea, Thomas William, Jr. TC C 3
 Shealy, Cecil Elton EC N 4
 Shehee, Ayles Berry, Jr. EC N 3
 Sherertz, Robert Francis EC N 3
 Sherman, Willard Barton TC C 7
 Sherrill, Glenn David TC N 5
 Shockey, Paul Kenneth EC N 3
 Shoemaker, Franklin Reynolds TC N 3
 Shomaker, Frank Ashley EC N 7
 Shuler, Tom Crawford, Jr. EC C 7
 Siegfried, Francis Hammond EC N 4
 Siker, Ephraim S. TC N 6
 Siler, Gail Andrew EC N 4
 Silverback, Lee Elmer EC C 8
 Simidian, Vahe TC C 4
 Simpson, Ralph Glenn, Jr. EC N 3
 Singer, Howard Gilbert TC N 3
 Singer, Joel David TC N 4
 Sinichko, George EC N 5
 Skarstrom, John H. TC C 9
 Skinner, William Wallace EC N 4
 Smith, Burdette Rex TC N 3
 Smith, George Bryan TC C 2
 Smith, Gordon Laidlaw, Jr. EC N 3
 Smith, Harry Haywood TC C 1
 Smith, James Campbell TC N 4
 Smith, James Lewis EC N 4
 Smith, John Burkett TC N 4
 Smith, Lee Amon TC C 3
 Smith, Robert Samuel TC N 7
 Smith, Whitefoord, Jr. TC C 8
 Smolen, Harry Anthony EC N 5
 Smurthwaite, Paul Malcolm, Jr. EC N 8
 Snively, Thomas Vinton, Jr. TC C 2
 Soto, Douglas EC C 5
 Spann, Willis Lee TC N 6
 Spearman, James Henry, Jr. TC C 1
 Spears, Marion Lee TC C 3
 Spears, Marshall Turner, Jr. TC N 3
 Spencer, Robert Frank EC C 3
 Spilman, Thomas William EC N 4
 Stafford, Glenn Lander TC N 4
 Stall, Kenneth Hunter EC N 3
 Stamm, James Charles TC N 4
 Standish, Livingston Miles TC N 5
 Stanfield, Henry Lawrence TC N 5
 Starkey, Wayne Hampton EC N 4
 Stegman, Kenneth Francis TC N 6
 Steiner, Kenneth James TC C 1
 Stephens, Samuel Statham TC N 3
 Stephens, Winston Bryant, Jr. EC N 4
 Stephenson, Harold Patty EC C 4
 Stevenson, Edward Ward TC N 6
 Stirling, Dean Arthur EC N 4
 Stockslager, Edwin Stevens, Jr. EC N 7
 Stockstrom, Louis, III TC C 6
 Stogsdill, Willis Wordsworth TC N 6
 Stone, Robert Lee, Jr. EC N 8
 Stophel, John Carroll EC N 3
 Durham, N. C.
 Portsmouth, Va.
 Columbia, S. C.
 Chattanooga, Tenn.
 Roanoke, Va.
 Leander, Tex.
 Rutherfordton, N. C.
 Smithsburg, Md.
 Knoxville, Tenn.
 Richmond, Va.
 New Philadelphia, Ohio
 Melrose Park, Pa.
 Port Chester, N. Y.
 Wyandotte, Mich.
 Peterson, N. J.
 Forest Hills, N. Y.
 Winston-Salem, N. C.
 Larchmont, N. Y.
 Brooklyn, N. Y.
 Raritan, N. J.
 Brooklyn, N. Y.
 West Hartford, Conn.
 Casper, Wyo.
 Greenville, S. C.
 Chattanooga, Tenn.
 Norfolk, Va.
 Washington, D. C.
 Philadelphia, Pa.
 Reynoldsville, Pa.
 Norfolk, Va.
 Merchantville, N. J.
 Charlotte, N. C.
 Whiting, Ind.
 Coatesville, Pa.
 Winter Haven, Fla.
 San Jose, Costa Rica
 Temple, Okla.
 Charlotte, N. C.
 Lexington, N. C.
 Durham, N. C.
 Spencer, N. C.
 Richmond, Va.
 Baton Rouge, La.
 Detroit, Mich.
 Grosse Pointe Park, Mich.
 St. Petersburg, Fla.
 St. Petersburg, Fla.
 Hampton, Va.
 Chicago, Ill.
 Jeannette, Pa.
 Gladys, Va.
 Bethesda, Md.
 Reidsville, N. C.
 Craigsville, Va.
 Washington, D. C.
 Westfield, N. J.
 Clayton, Mo.
 Bloomington, Ind.
 Durham, N. C.
 Bristol, Tenn.

- Stover, William Page EC C 10
 Strahan, John Franklin TC N 6
 Straith, William Mott TC C 3
 Suddard, Neal Arnold TC C 3
 Sullivan, Percy Guin TC C 2
 Sunderland, Glenn Wilce EC N 5
 Sutenfield, Charles Madison TC N 4
 Sutton, Harry Wagner EC N 3
 Sutton, Howard Mitchell TC N 3
 Sutton, John Marshall TC C 6
 Svenson, James TC N 3
 Swanson, Arnold Arthor TC C 9
 Swaringen, Charles Tillett, Jr. EC N 8
 Switzer, Elwood Evritt EC N 3
 Sydeman, William Jay TC C 2
 Sydnor, Charles Sackett, Jr. TC C 4
 Tallant, Daniel Hoge TC N 5
 Taylor, Carson Elroy TC N 5
 Taylor, Charles Lewis EC N 4
 Taylor, David Kerr TC C 3
 Taylor, Geoffrey James EC N 4
 Taylor, William Harvey TC C 1
 Templeman, Gordon Frank TC N 5
 Thomas, George S., Jr. EC C 3
 Thomas, Paul Bert EC N 4
 Thomas, Robert Leo TC N 3
 Thomas, Roy Wesley EC N 4
 Thompson, Donald Reece TC N 5
 Thompson, Harold Britt TC C 2
 Thompson, James Gilliam EC N 7
 Thompson, James Theodore TC C 1
 Thompson, Joseph Walter TC N 4
 Thompson, Leonard Howard EC N 3
 Thompson, Ronald MacKinnon TC C 6
 Thompson, William Wallace TC N 4
 Thornton, John Lemuel TC N 6
 Thropp, Frank Wilkes TC C 1
 Thrower, Troy Hyman TC C 4
 Tichenor, Charles Beckham TC N 6
 Tidler, Harold Stanley TC N 6
 Tillinghast, Arthur TC C 2
 Todd, Robert Emmett EC N 4
 Tompkins, Richard Thomas EC N 4
 Tolson, Walter James TC N 3
 Tomlinson, Carroll Finley EC N 5
 Tracy, Marvin Grant EC N 5
 Trawick, Irving Frederick TC C 1
 Trout, Thomas Warren EC N 4
 Trumbull, Roy John EC N 5
 Turner, Thomas Lambuth TC N 4
 Tyson, Robert Miller TC C 2
 Underwood, Carl Haden TC N 3
 Urban, James Arthur TC C 3
 Urlaub, Matthew William TC C 1
 Valledor, Jose Manuel TC C 2
 Valley, Morton Thurlow TC C 2
 Vallotton, Billy Wise TC C 2
 Van Blarcum, Alfred Allen, Jr. EC N 3
 Vandenend, Hilbert EC N 6
 Van Fossen, Richard Waight TC C 2
 Charlotte, N. C.
 Catonsville, Md.
 Detroit, Mich.
 Newark, Del.
 Bessemer, Ala.
 Newton, Ill.
 Lynchburg, Va.
 Baltimore, Md.
 Roanoke, Va.
 Russell, Ky.
 Detroit, Mich.
 Wilmar, Calif.
 Greensboro, N. C.
 Defiance, Ohio
 New York, N. Y.
 Durham, N. C.
 Bradenton, Fla.
 Nashville, Tenn.
 Charleston, W. Va.
 Oxford, N. C.
 Manheim, Pa.
 Enka, N. C.
 Evanston, Ill.
 Stanfield, N. C.
 Bellmore, N. Y.
 Point Pleasant, W. Va.
 Carlsbad, N. M.
 Kingsport, Tenn.
 Hallsboro, N. C.
 Greensboro, N. C.
 Charlotte, N. C.
 Kermit, W. Va.
 Trenton, N. J.
 Durham, N. C.
 Charleston, S. C.
 Warrenton, Va.
 Morrisville, Pa.
 Ridgeville, S. C.
 Indianapolis, Ind.
 Arlington, Va.
 New York, N. Y.
 Somerville, N. J.
 Washington, D. C.
 Durham, N. C.
 Lakewood, Ohio
 Danville, Ohio
 Durham, N. C.
 Marietta, Ohio
 Milwaukee, Wis.
 Lynchburg, Va.
 Larchmont, N. Y.
 Mt. Holly, N. C.
 Miami, Fla.
 Bellerose, N. Y.
 Hato Rey, P. R.
 Cohoes, N. Y.
 Valdosta, Ga.
 Canton, Ohio
 Oak Park, Ill.
 Washington, D. C.

Vaughan, John Willis	EC N 3	Hampton, Va.
Veals, Ralph Langdon	TC N 3	Carneys Pt., N. J.
Vick, Gerald Edward	TC C 1	Miami, Fla.
Viehmeier, George Frederick	EC N 5	Baltimore, Md.
Vining, Ralph Edward, Jr.	EC N 3	Baltimore, Md.
Virgin, Don Granville	TC N 3	Ashland, Ky.
Vitale, Joseph A.	TC C 2	Verona, N. J.
Vogel, John Leslie	TC C 4	Louisville, Ky.
Walker, Frederick Layman	TC C 4	Washington, D. C.
Walker, Gordon Rexal	EC N 7	Spindale, N. C.
Walker, Johnnie Cusworth	TC C 3	Chevy Chase, Md.
Wall, Junius French	EC N 3	Chattanooga, Tenn.
Ward, Charles Theodore	EC N 3	Chattanooga, Tenn.
Warinner, Junius Ernest, III	TC N 6	Richmond, Va.
Warner, John Robinson	TC C 7	Durham, N. C.
Warner, Tim Goode	TC C 6	Greensboro, N. C.
Warren, Julian Marion	TC C 3	Spring Hope, N. C.
Warren, Thomas Byrd	EC N 5	Chevy Chase, Md.
Watkins, Ernest Culpepper	TC C 1	Ramseur, N. C.
Watkins, John David	EC N 3	Rocky Mount, N. C.
Watkins, William Forbes, Jr.	EC N 6	Farmville, Va.
Watson, Frank Yandle	TC N 6	Charlotte, N. C.
Watson, Henry Brock	TC C 3	Prospectville, Pa.
Wayland, Ernest Tedford	TC N 2	Knoxville, Tenn.
Webster, Thomas Radford	TC C 1	Durham, N. C.
Wedding, Jesse Conrad	TC N 3	Raleigh, N. C.
Weil, Kenneth Louis	TC C 3	New York, N. Y.
Weinberg, John David	EC N 3	Mt. Vernon, N. Y.
Weirauch, Roland	EC N 5	Liberty Center, Ohio
Weissberger, Edwin George	TC C 1	New York, N. Y.
Welch, Frederick Parker	TC C 2	Madison, N. Y.
Welch, Gordon Kennedy	TC C 1	Coral Gables, Fla.
Wells, David Allen	TC N 8	Hapeville, Ga.
Wells, John Harrison	TC N 3	Greensboro, N. C.
Wells, John Murrell	TC C 3	Hapeville, Ga.
Wells, Joseph Fisher	EC C 3	Cheltenham, Pa.
Wells, William Charles, Jr.	TC N 6	Delanco, N. J.
Wells, William Eston	TC N 5	St. Petersburg, Fla.
West, Edwin Scott	TC N 4	Windom, Tex.
West, George Washington	EC N 4	Philadelphia, Pa.
West, Robert H.	TC C 2	Charlotte, N. C.
West, Sidney	TC C 3	Washington, D. C.
Wheeler, Arthur Edwin	EC N 4	Philadelphia, Pa.
White, Beaman Twitty	EC C 3	Raleigh, N. C.
White, Richard Marion	EC N 5	Norfolk, Va.
Whitfield, Thomas Japheth, III	TC N 3	Suffolk, Va.
Whitley, Joseph McCullough	EC N 5	Oakmont, Pa.
Wight, Fred Cary	TC N 3	Sanford, Fla.
Wilbur, Robert Lynch	TC C 5	Durham, N. C.
Wilder, Jesse Holland	EC N 4	Delight, Ark.
Wilhoite, Gene Milton	EC N 5	Chattanooga, Tenn.
Will, Kyle William	EC N 4	Audubon, N. J.
Williams, Daniel McGregor	TC C 4	Durham, N. C.
Williams, Harold Lee	TC C 2	Greenville, N. C.
Williams, Harvey McDonald	EC N 3	Norfolk, Va.
Williams, Kenneth Trotter	TC C 1	Charlotte, N. C.
Williams, Lloyd Lorenzo, Jr.	TC C 2	Jacksonville, Fla.
Williams, Louis Howard	TC C 2	Greenville, N. C.
Williams, Ronald Edward	TC N 4	Akron, Ohio
Williamson, Cecil Floyd	TC N 5	Cerro Gordo, N. C.

Wilson, Alexander C. R. EC N 4	Baltimore, Md.
Wilson, John Winkle, Jr. TC N 5	Chattanooga, Tenn.
Wilson, Joseph Richard Hoyle EC N 7	Atlanta, Ga.
Wilson, Robert Hayes TC N 3	Los Angeles, Calif.
Wingard, David EC C 4	Youngsville, Pa.
Winitsky, Leon EC N 5	Camden, N. J.
Wolff, George Miles EC C 6	Haynesville, La.
Woodward, Willys Lee TC N 5	Fulton, N. Y.
Woolley, Philip Monroe EC N 5	Southern Pines, N. C.
Wright, William Albert, Jr. TC C 6	Youngstown, Ohio
Wuchte, Richard Ernest EC N 3	Lebanon, Pa.
Wyche, Malvern Hill EC N 8	Emporia, Va.
Wyeth, Marion Sims, Jr. TC N 3	Palm Beach, Fla.
Young, Edward Eugene TC N 3	Lexington, Ky.
Young, Richard Oliver EC N 4	Forest Hills, La.
Yount, Paul Wesley, Jr. TC N 6	Charlotte, N. C.
Zech, Arthur Orr TC C 2	Miami, Fla.
Zimmerman, Cullen Caswell TC C 2	Durham, N. C.
Zitzelberger, James Allen TC N 4	Milwaukee, Wis.

November 1, 1944-February 23, 1945

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Abelkop, Sheldon TC C 2	Durham, N. C.
Abramson, Richard Arlen TC C 5	New York, N. Y.
Acton, Robert William TC N 3	Jackson, Mich.
Adams, Ernest Francis TC N 2	Belleville, N. J.
Adams, Gilreath Gilderoy, Jr. TC C 8	Charlotte, N. C.
Adams, Hunter DeWees TC N 2	Drexel Hill, Pa.
Adams, Thornton Dixon TC C 4	Carthage, N. C.
Adams, William Hester, III TC N 5	Atlantic Beach, Fla.
Adams, William Talmadge TC C 2	Hampton, Va.
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Alexander, William Coburn EC N 7	Durham, N. C.
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Allin, James Lander TC C 1	Lakeland, Fla.
Allred, William Floyd TC C 2	Rockingham, N. C.
Alpert, Eugene Oliver TC C 5	Brooklyn, N. Y.
Alt, Thomas Henry TC N 2	Washington, D. C.
Ambrose, Kenneth Eugene TC N 5	Oblong, Ill.
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Anderson, Charles Duane TC N 3	Lakeland, Fla.
Anderson, John Powell TC N 5	Lynchburg, Va.
Anderson, Leonard Porter, Jr. TC N 5	Camden, S. C.
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Anderson, William Woodrow TC N 3	Etrick, Va.
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Anthony, Edwin Leon EC N 7	Binghamton, N. Y.
Appleby, Winfred Louis TC N 4	Coral Ridge, Ky.

- Applegate, Alfred Jackson TC C 5
 Arford, James Albert TC N 5
 Arnold, Allen Richard EC N 6
 Ashby, Rufus TC N 7
 Ashby, William Clay TC C 1
 Atkins, Robert Myrick TC N 6
 Atwood, John Warren TC N 2
 Ausband, David Wesley TC C 2
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 Aycock, Ezra Kenny TC C 2
 Aycock, Thomas Crockett, Jr. TC C 3
 Ayerst, Robert Irvin TC C 2
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 Baer, Bruce Lawrence TC C 2
 Bagosi, Joseph William TC N 3
 Bailey, Edward Anthony TC N 7
 Baily, Alfred E. TC N 6
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 Baker, David Mohn TC N 7
 Baker, Sumner Erwin TC N 3
 Baker, William Henry TC C 3
 Bane, Allan TC C 1
 Barber, Henry Ford TC N 4
 Barber, John Wilson TC C 1
 Barger, Charles Thomas TC N 4
 Bargetz, William Ralph TC N 3
 Barnard, John Lockhart, Jr. TC N 2
 Barnes, Charles Henry TC C 2
 Barnes, Robert Lloyd TC N 2
 Barr, Charles Lee TC N 5
 Barrett, John Albert TC C 2
 Barringer, Harold Ross TC N 4
 Battle, William C. TC C 6
 Beam, Jay Ky TC N 4
 Beaman, Nathaniel, III TC N 7
 Beaman, Robert Prentis, Jr. TC N 7
 Beaudouin, Harry Edward TC N 7
 Bechtold, George William TC N 3
 Beck, Buford L. TC N 4
 Becker, A. William TC C 4
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 Becker, William Frederick EC N 6
 Beddingfield, Richard Jackson TC N 7
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 Bedinger, John F. TC N 7
 Bedinger, Neal Anderson TC N 7
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 Bell, Harry Leo TC C 1
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 Bennett, Reginald Victor, Jr. TC N 2
 Benson, Rupert Lee, Jr. TC C 5
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 Birmingham, Walter Marvin TC N 3
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 Royersford, Pa.
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 Nutley, N. J.
 Manhasset, N. Y.
 Freeport, N. Y.
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 Haverford, Pa.
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 Louisville, Ky.
 Wrightsville Beach, N. C.
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 Philadelphia, Pa.
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 Lumberton, N. C.
 Glen Ferris, W. Va.
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 Brooklyn, N. Y.

- Bishopric, George Andrew TC N 5
 Black, David Coley TC C 4
 Blackman, Thomas TC N 3
 Blackmon, Benjamin Boines TC C 3
 Blake, John Ronald TC C 5
 Blake, William Campbell, Jr. TC N 2
 Blanton, Stewart Bennett EC N 6
 Bliss, William Robert TC N 2
 Bliss, Francis O'Donovan, Jr. TC N 4
 Bobb, William Anders TC C 5
 Bock, Paul EC N 4
 Boeckel, John Hart TC N 2
 Boger, Clarence Earl TC N 3
 Boggs, Charles Harmon, Jr. TC N 7
 Boggs, Lawrence Kennedy TC N 6
 Bogley, Claude Wilbur TC N 2
 Bohn, Alfred Christian, Jr. TC C 1
 Boney, Homer Mac, Jr. TC N 2
 Bonn, Marvin Charles EC N 4
 Bonner, Charles Wilbur, Jr. TC N 3
 Boone, Thomas Hood TC C 4
 Booth, Claude Carr TC N 3
 Boraski, Nicholas TC C 1
 Borland, William Silas EC N 4
 Bortner, John Gerberick TC C 2
 Bostedor, Gerald Clare TC N 3
 Bowden, George Edwin TC C 6
 Bowdre, John Birch TC N 2
 Bowe, Walter John TC N 2
 Bower, David Malthaner TC C 2
 Bowers, Gilmore TC C 1
 Bowie, Fred Alexander EC C 3
 Bowles, Richard Morgan TC C 2
 Boyd, Benjamin F. TC C 6
 Boyers, Robert Cyrus TC C 2
 Boyette, Thomas Leroy TC C 2
 Bozich, Anthony Michael TC N 3
 Bracey, Earl Watkins TC N 4
 Brackenwagen, Stanley Gene TC N 3
 Bradley, Philip Edgar, Jr. TC N 2
 Bradley, William Macon TC N 3
 Brafford, George Lindley TC C 1
 Brand, Joseph Margon TC N 2
 Brandon, James Raymond TC C 1
 Brandt, Carl Richard EC N 4
 Brandt, Chester TC C 3
 Branscomb, Lewis McAdory TC N 6
 Brashear, Thomas Edward TC N 4
 Braswell, Charles Clarence EC C 7
 Brawner, Hugh Page TC C 5
 Brennan, William Henry, Jr. TC N 2
 Brennan, William Knodel TC N 2
 Bridgforth, Edwin Burwell TC N 8
 Bright, Turner Newton EC N 8
 Britt, Clyde Lee TC C 2
 Broadfield, Ward Holt, Jr. EC N 7
 Bronson, Richard Avann TC C 4
 Brooks, John Granville EC N 7
 Brooks, Keith TC N 5
 Brooks, Richard Iddings, Jr. TC N 4
 Spray, N. C.
 Durham, N. C.
 Klamath Falls, Ore.
 Orangeburg, S. C.
 Washington, D. C.
 Tampa, Fla.
 Charlotte, N. C.
 Dickerson, Md.
 Dickerson, Md.
 Nyack, N. Y.
 Baltimore, Md.
 Rockville, Md.
 Akron, Ohio
 Franklin, W. Va.
 Birmingham, Ala.
 Friendship Heights, Md.
 Principio Furnace, Md.
 Wallace, N. C.
 Freeport, Ill.
 Richmond, Va.
 Washington, D. C.
 Philadelphia, Pa.
 Dalton, Mass.
 Falls Creek, Pa.
 York, Pa.
 Detroit, Mich.
 Norfolk, Va.
 Macon, Ga.
 Syracuse, N. Y.
 Lenoir, N. C.
 Winston-Salem, N. C.
 Morganton, N. C.
 Garden City, N. Y.
 Panama City, Panama
 Morgantown, W. Va.
 Winston-Salem, N. C.
 Chicago, Ill.
 La Crosse, Va.
 Brookings, S. D.
 Purcellville, Va.
 Atlanta, Ga.
 Sanford, N. C.
 Louisville, Ky.
 Durham, N. C.
 York, Pa.
 Brooklyn, N. Y.
 Durham, N. C.
 Cameron, Tex.
 Durham, N. C.
 Washington, D. C.
 Stamford, Conn.
 Louisville, Ky.
 Pickens, Miss.
 Bardstown, N. Y.
 Lumberton, N. C.
 Cartersville, Ga.
 Coral Gables, Fla.
 Richmond, Va.
 New Castle, Pa.
 Peterboro, N. H.

Browder, Joseph Garrett EC N 7
 Brown, Bachman Storch, Jr. TC N 3
 Brown, Chandler Wilcox TC N 3
 Brown, Clarence J., Jr. TC N 2
 Brown, Kenmore McManes TC N 3
 Brown, Miller French EC C 3
 Brown, Walter Lyons TC N 7
 Browne, George Feild TC N 3
 Brownell, Edmund Begole TC C 1
 Bruck, Thomas Joseph TC N 3
 Brunner, George Joseph TC N 2
 Bryan, William Joe TC N 5
 Bryans, Robert Lee TC C 5
 Bryant, Clyde Vernon TC C 2
 Bryant, William Patrick, Jr. TC N 2
 Buchanan, Edward Dean EC N 3
 Buchanan, William Edward TC C 2
 Buck, Donald Arthur TC N 3
 Buck, Lewis Alexander TC N 3
 Buckley, Daniel Joseph TC N 3
 Buckley, Donald Bright TC N 7
 Budd, James Archibald TC N 6
 Buehn, Jack Louis TC N 2
 Buelich, Nickola TC N 2
 Bugg, Charles Paulett TC C 2
 Bullard, John Carson TC N 2
 Burg, James Donald TC N 4
 Burris, Richard Ross TC N 4
 Burris, Robert Eugene TC N 2
 Busby, David Franklin TC N 4
 Byers, Irving Miller TC N 6
 Cacak, Stanley John TC N 5
 Caffey, John William, Jr. TC C 2
 Cahow, James Norman TC N 3
 Cairns, Frank Elmer, Jr. TC N 4
 Callen, Jerry Kenneth TC N 3
 Cameron, Angus McKay TC C 5
 Cammack, Allen Berriman TC N 4
 Campbell, Craig Carol TC C 2
 Campbell, Lachlan Leigh TC C 3
 Cannon, Michael Leo TC N 4
 Carmichael, Clifford EC N 7
 Carney, William F. TC N 3
 Carpenter, Robert Murray EC N 7
 Carrera, Carl Henry TC C 2
 Carrier, Uel Lavon EC N 5
 Carroll, Thomas Richard TC N 4
 Carson, Raymond Reese TC N 2
 Carter, George Daniel TC C 3
 Carter, Hal Dunson TC N 2
 Carter, Shirley Hall, Jr. TC N 3
 Caviness, Joseph Edward, Jr. TC C 2
 Cecil, Bradford Hayden TC N 2
 Chapman, Thomas Louis TC C 5
 Chappell, Thomas Tye TC N 2
 Chase, Paul Engelhart TC N 5
 Chears, William Crockett, Jr. TC N 2
 Cherry, Edwin Arlington, Jr. TC C 1
 Chetlin, Norman Daniel TC N 3
 Chipley, Roy Marshall, Jr. TC N 2
 Charlotte, N. C.
 Lincolnton, N. C.
 Short Creek, W. Va.
 Washington, D. C.
 Washington, D. C.
 Beaumont, Tex.
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 Washington, D. C.
 Greenwood, Fla.
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 Weirton, W. Va.
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 De Funiak Springs, Fla.
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 Gas City, Ind.
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 Thompson, Neb.
 Greensboro, N. C.
 Omaha, Neb.
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 Coral Gables, Fla.
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 Charlotte, N. C.
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- Christian, John Wortham, Jr. TC C 1
 Ciucci, Joseph Vincent EC N 4
 Clapp, Daniel Elliott TC N 3
 Clark, Don Morse TC N 4
 Clark, George Philemon TC N 6
 Clark, Hubert Karl EC N 7
 Clark, Sam Lillard TC N 4
 Clark, Walter S. TC C 3
 Classen, Robert Edward TC N 3
 Clifford, Robert Keaney TC N 3
 Clowes, George Russell TC N 3
 Cocke, John EC N 6
 Cockey, James Sudler TC N 3
 Coe, Lowry Nadal, Jr. TC N 2
 Coffman, Richard Andrew TC C 1
 Cole, Leo Lincecum TC N 2
 Cole, Richard Shipley TC N 7
 Coles, Jewell Rudolph TC N 2
 Compton, William Avera TC C 1
 Condon, Vernon William TC N 3
 Connolly, William Dwight TC N 4
 Conrad, Edward Strickland TC N 2
 Cook, Edwin Neal TC C 2
 Cook, Harold Jacob, Jr. EC N 8
 Cooke, John Henry EC N 4
 Cooper, George James EC N 8
 Cope, Billy Sherrill EC N 6
 Copley, Alden Gibson EC N 8
 Coppin, Charles Clifford, III TC N 2
 Corrado, Victor Menna TC N 4
 Corrigan, James Henry, Jr. TC N 3
 Corrigan, Philip Louis TC C 1
 Cox, Walter Edward TC N 3
 Cox, William Jones TC C 5
 Credle, Edward Cecil EC N 4
 Cressman, Robert Allen TC N 3
 Crivello, Alfred Anthony TC N 4
 Croft, John Lyle TC C 2
 Crosland, Robert Elder TC N 3
 Cross, Ray Y. TC C 2
 Cross, Wilbur Rawls TC N 3
 Crowder, John Nathaniel TC N 5
 Crowder, LeRoy Ernest TC C 2
 Crutcher, James Carroll TC N 4
 Cudworth, James Rowland TC N 4
 Cullis, James Woodworth TC N 2
 Currier, Richard Dustin TC N 7
 Curry, John Edward EC N 4
 Curtis, Wesley Ballard EC N 4
 Czerwinski, Stephen Ramsay TC N 2
 Dailey, Henry Elwood, Jr. TC C 1
 Daniel, Dorsey Wharton EC N 6
 Darrow, Thomas Edward TC C 1
 Davidson, George Robert TC N 2
 Davidson, William David TC C 4
 Davis, Albert Paul TC N 2
 Davis, Karl Donald TC C 2
 Davis, Wayne Edward TC N 5
 Davis, William Archie EC N 8
 Davison, Alexander Thayer TC C 2
 Durham, N. C.
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 Hellam, Pa.
 Wilson, N. C.
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DeHoff, Harold Lee TC N 2
 DeMott, Robert Bert TC N 3
 Dempsey, Walter Joseph TC N 4
 Dennerline, Fred William TC C 2
 Denton, Robert Todd TC N 2
 Denton, William Henry EC N 3
 DeVore, Leonard Horton TC N 7
 Dibble, James Birney TC N 5
 Dibble, Philip Gage TC N 7
 Dickens, John Van, Jr. TC N 4
 Dickerson, Ned TC C 1
 Dickson, Benjamin Hedgepeth TC C 6
 Diehlman, Elmer Bernard TC N 4
 Diener, Clayton H. TC C Special
 DiGiovanni, Ralph TC C 2
 Ditmansen, Samuel Robert TC N 4
 Dixon, John Milner EC N 7
 Dolson, Thomas Lee TC N 7
 Donahue, George Francis TC N 2
 Doran, Francis Aloysius TC N 2
 Dorsett, Hugh Jackson TC N 4
 Dorsey, John Patrick TC N 2
 Dorsey, John Phillip TC N 4
 Dorsey, William Rothwell TC N 3
 Dorton, Spero Pete TC C 5
 Douglas, Richard Sands TC C 2
 Downey, William Herbert TC N 3
 Doyle, Richard Lee EC C 7
 Drabent, Eugene Alphonse TC N 4
 Drake, David Ewing TC N 2
 Drew, Mitchell Nebraska TC N 3
 Dunaiski, Raymond Martin EC N 4
 Durand, Frank, Jr. TC N 4
 Dyches, Randall Altman TC C 2
 Dye, Dewey Albert TC N 5
 Eastman, James Weston TC N 2
 Eaton, William Mellon TC N 5
 Eberle, Sidney Sohns, Jr. TC C 1
 Edwards, Arthur Anderson TC N 2
 Edwards, John Springstead TC C 2
 Edwards, John Wiley TC N 2
 Edwards, Zeno Lester TC C 2
 Einhorn, Elliot J. TC C Special
 Eisaman, Jack Verner TC N 2
 Eisenberg, Lloyd TC C 3
 Elder, Albert Leon, Jr. TC N 2
 Elder, John Calvin TC C 2
 Elkins, Augustus Coolidge EC N 7
 Elliott, John TC C 2
 Elliott, Stuart Whitfield TC C 1
 Elliott, Thomas Ruff TC C 1
 Ellis, John, Jr. EC N 3
 Ellis, John Granbery, Jr. TC N 2
 Ellis, Robert William TC N 3
 Ellison, Haskell Saul TC C 6
 Elmendorf, Richard Arthur TC N 2
 Elrod, William Alexander TC C 1
 Engle, James Wallace, Jr. TC N 5
 Engquist, John Arnold TC N 3
 Epstein, Gordon Van TC N 2

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 Canton, Ohio
 Raleigh, N. C.
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 Washington, N. C.
 Durham, N. C.
 Slickville, Pa.
 Philadelphia, Pa.
 Bel Alton, Md.
 Ravenswood, W. Va.
 Durham, N. C.
 Silver Springs, Md.
 Charlotte, N. C.
 Pt. Wentworth, Ga.
 Cass Christian, Miss.
 Richmond, Va.
 Philadelphia, Pa.
 Charleston, S. C.
 Washington, D. C.
 Chadbourne, N. C.
 Arlington, Va.
 Millbury, Mass.
 Union, N. J.

- Ervin, Charles Conger TC N 5
 Esling, Paul Joseph, Jr. TC N 2
 Eubanks, Otha Albert, Jr. TC N 5
 Fairy, William Arthur, II TC C 8
 Farmer, Richard Carlton TC C 2
 Farren, William Joseph TC N 4
 Faulkner, Doc George, Jr. TC N 2
 Feiring, Bruce Clifford TC N 2
 Fenno, John Starkweather TC N 2
 Fenstermacher, Robert James TC N 6
 Ferdinand, Thomas Francis TC N 2
 Ferris, Fred Irving Eldridge TC C 3
 Field, John Dane, Jr. TC N 4
 Fieldson, Jack Wilbur TC C 1
 Fine, Ephraim Allan TC C 1
 Fink, Chester Walter TC C 2
 Fisher, John Eastham TC N 2
 Fisher, John Miller, Jr. TC N 2
 Fitzpatrick, Julius Way TC N 4
 Flake, Winston Hulsey TC N 4
 Fleetwood, Edgar Allen TC C 1
 Fleisher, Martin EC N 6
 Flowe, Benjamin Hugh TC N 5
 Flynn, William Michael TC N 3
 Fogle, Richard DeWitt TC C 1
 Forbes, Kenneth Keith TC N 5
 Ford, Everett Wilson TC N 3
 Foshee, Charles Newell TC C 3
 Fox, George Henry, Jr. EC N 7
 Foxtton, Frederick Leon TC N 2
 Foy, Thomas Franklin TC N 2
 France, Roy Holroyd EC N 5
 Francis, Everett Warren TC N 3
 Frate, Domenico Carlo TC N 4
 Frederick, Bert John, Jr. TC N 3
 Freedman, William EC C 6
 Freeland, James Jackson TC C 1
 Freeze, William Robert EC N 8
 Friauf, Robert James TC N 2
 Friedli, Ernest Karl EC N 3
 Friend, Fred Erwin TC N 2
 Frisch, Joseph EC C 4
 Fritts, George Printice, Jr. TC N 2
 Frizzelle, John Lloyd, Jr. TC C 5
 Fuchs, Francis Joseph TC C 1
 Furst, William Dunton TC N 4
 Gaffney, George W. TC N 7
 Gaillard, Stephen Lee TC N 7
 Gamble, Bryant Oswald TC C 1
 Garcia de Quevedo, Guillermo TC C 1
 Gardiner, Thomas Richard TC N 3
 Gardner, Martin Columbus TC N 2
 Gardner, Robert Randolph TC N 2
 Gardner, William Henry, Jr. EC N 7
 Garrett, Norman H., Jr. TC C 5
 Garside, Joseph Junior TC N 2
 Garthe, Henry Carl TC N 2
 Gaskins, William Lloyd, Jr. TC N 2
 Gatling, Myrlon Lydon TC C 3
 Gast, George William TC N 2
 Lenior, N. C.
 Wildwood, N. J.
 Upper Darby, Pa.
 Burlington, N. C.
 New Bern, N. C.
 New York, N. Y.
 Nashville, Tenn.
 Plainfield, N. J.
 Alexandria, Va.
 Murfreesboro, Tenn.
 Newark, N. J.
 Scarsdale, N. Y.
 Lincoln, Ill.
 McKees Rocks, Pa.
 Baltimore, Md.
 Durham, N. C.
 Nashville, Tenn.
 Roanoke Rapids, N. C.
 Cape May Ct. House, N. J.
 Memphis, Tenn.
 Weston, W. Va.
 Brooklyn, N. Y.
 Concord, N. C.
 Virginia Beach, Va.
 Durham, N. C.
 Armington, Ill.
 Albemarle, N. C.
 Rocky Mount, N. C.
 Oaklyn, N. J.
 Silver Creek, N. Y.
 Richmond, Va.
 Spartanburg, S. C.
 Wilmington, Del.
 Baltimore, Md.
 Lansing, Mich.
 Durham, N. C.
 Miami, Fla.
 Charlotte, N. C.
 Arlington, Va.
 Brooklyn, N. Y.
 Laurenceburg, Tenn.
 Durham, N. C.
 Marathon, N. Y.
 Durham, N. C.
 Greenfield, Mass.
 Baltimore, Md.
 Tampa, Fla.
 Bronxville, N. Y.
 Baltimore, Md.
 Santurce, Puerto Rico
 Waldorf, Md.
 Reed, W. Va.
 Columbia, Tenn.
 Edenton, N. C.
 Mt. Kusco, N. Y.
 Fairmont, W. Va.
 Baltimore, Md.
 New Bern, N. C.
 Norfolk, Va.
 Portland, Ind.

Geer, John Barnes	TC N 2	Hagerstown, Md.
Geier, John Joseph	EC N 4	Rochester, N. Y.
Gerke, John Royal	C N 3	Charlotte, N. C.
Gerstein, Joe Willie	TC C 2	Covington, Ga.
Gilbert, Olin Englar, Jr.	TC N 2	Baltimore, Md.
Gilpin, Roy Edwin, Jr.	TC N 4	Carson, Iowa
Gimbernath, Rogers Wallace	TC N 2	Rahway, N. J.
Glancy, William Lemuel	TC C 4	Mt. Airy, N. C.
Glass, Gordon	TC C 2	Plainfield, N. J.
Glenn, Anderson Tince, Jr.	TC C 3	Burlington, N. C.
Glos, Richard Corbin	TC C 5	Tampa, Fla.
Glover, Horace Sluman	TC N 3	Starrucca, Pa.
Gochnauer, Richard Bleakley	TC N 2	Baltimore, Md.
Goode, John Richard	TC C 2	Statesville, N. C.
Goode, John Ronald, Jr.	TC N 2	Nashville, Tenn.
Goodman, Howard	TC N 4	New York, N. Y.
Goodson, Phillip Lorenzo	TC C 1	Greenville, N. C.
Goodwin, David	TC N 4	Memphis, Tenn.
Gorrell, Joseph Palmer	TC C 2	Greensboro, N. C.
Gorsuch, Thomas Leonard	TC N 2	Baltimore, Md.
Gray, Glenn Monroe	TC C 1	Charleston, S. C.
Gray, Harry Williams	TC N 5	Poolesville, Md.
Gray, Irving Smith	TC C 1	Freeport, N. Y.
Gray, Robert Lee	TC C 2	Russell, Ky.
Greene, Joe Matt	TC N 3	New Tazewell, Tenn.
Greenman, Harlan Ray	TC N 3	Battle Creek, Mich.
Greenwald, Frank Stafford	TC N 7	Gary, Ind.
Greenwald, Robert Clark, Jr.	EC N 6	Norfolk, Va.
Gresham, Rex Maynard	TC N 5	Oklahoma City, Okla.
Griese, Harry Frank, Jr.	EC N 4	Cincinnati, Ohio
Griffeth, Leon Clifford	TC C 5	Holmes, N. Y.
Griffin, Edwin Newsom	TC C 1	Roanoke, Va.
Griffin, Eugene Wilson, Jr.	TC N 2	Hamlet, N. C.
Griffin, Russell Edward	TC N 3	Battle Creek, Mich.
Griffith, Norman Early, Jr.	TC N 3	Charlotte, N. C.
Griggs, Eugene Schenck	TC C 5	New Brunswick, N. J.
Grose, George Benedict	TC C 1	St. Paul, Minn.
Grubb, John Gilbert, Jr.	EC N 6	Norfolk, Va.
Gruber, Sol	EC N 4	New York, N. Y.
Grudee, Robert Ferdinand	TC N 4	Pelham Manor, N. Y.
Grunder, Bey Gates	TC N 4	Bentley, Mich.
Guida, Stellario John	TC N 3	New York, N. Y.
Gunst, Cyril Curtis, Jr.	TC N 7	Greenshaw, Pa.
Gupton, John William	TC N 2	Nashville, Tenn.
Gurley, Elbert Luther	TC N 2	Lenoir, N. C.
Gurley, Joseph Grafton	TC N 2	Richmond, Va.
Haines, George Louis, Jr.	TC N 7	Washington, D. C.
Hale, L. Gordon	TC N 7	Scarsdale, N. Y.
Hall, James Curtis	TC N 3	Galax, Va.
Hall, Kenneth Daland	TC C 2	Dayton, Ohio
Halliday, William Neil	TC N 2	Columbus, Ohio
Hamilton, Charles Mitchell	TC N 4	Nashville, Tenn.
Hamilton, George Linn	TC C 2	Minnora, W. Va.
Hamilton, Neill Quinn	TC N 3	Pittsburgh, Pa.
Hammett, Gordon Charles, Jr.	TC N 2	San Francisco, Calif.
Hampton, George Forrest	TC N 2	Signal Mt., Tenn.
Hampton, William Edgar	TC C 1	Durham, N. C.
Hanbury, Euclid Murden, Jr.	TC N 4	Portsmouth, Va.
Haney, John Norman	TC N 2	Grandview, W. Va.
Hanger, Keith Roland	TC N 6	South Charleston, W. Va.

- Haninger, Glenn James TC N 5
 Hanni, Herman Squire TC N 3
 Harden, Milton Ray, Jr. TC N 2
 Hardison, Frederick Leon EC C 5
 Hardman, Wallace Jackson TC N 2
 Harford, Mark Henry, Jr. TC N 3
 Hargett, Derward Mitchell EC N 6
 Harkness, Richard R. EC N 7
 Harlan, Billy Orner TC N 3
 Harleston, Robert Haig, Jr. TC C 3
 Harman, William Walter TC N 3
 Harper, William Preston TC C 2
 Harrington, Thomas Sidney TC C 2
 Harris, Dela Fletcher TC C 2
 Harris, Marvin Doyle TC C Special
 Harris, Rodney Elton TC C 2
 Harry, Reece Price TC N 5
 Hartley, Robert Charles TC C 2
 Hassell, T. Fleetwood TC C 2
 Hastings, Richard Owen EC N 3
 Hatcher, Edgar Archibald TC N 4
 Hattaway, James Herbert TC C 7
 Haughton, James Dobbin TC C 2
 Haun, Warren Scott TC N 2
 Hauser, John Arnold TC N 4
 Havens, Robert Schiller TC N 2
 Hayden, Daniel Lee TC C 2
 Hayes, Leonidas Braxton, Jr. TC N 2
 Hays, Thomas Franklin TC N 4
 Hayward, Leal Dorman TC C 1
 Hegarty, James Harold TC N 4
 Helgason, Hordur TC C 6
 Hemingway, Clifford Ervin TC C 2
 Henderson, Jesse James, Jr. TC C 5
 Hendley, Sammy Moore TC C 1
 Heniford, Davis Oscar, Jr. TC C 1
 Henninghausen, Frederick Herman, Jr.
 EC N 7
 Henry, William Charles TC N 7
 Henry, William Theron TC N 2
 Hensley, James Edward TC N 3
 Herbst, Robert Taylor TC N 5
 Hermann, Ernest Conrad TC N 4
 Hernandez, Harley Holt TC C 1
 Hersman, George Jacob TC N 3
 Hewett, Ertle Bellamy TC N 2
 Hiebert, Talmage Gordon TC C Special
 Higginbotham, William Edward TC N 4
 Hill, Charles Edward TC N 2
 Hill, James Gilland TC C 2
 Hine, Butler Preston, Jr. TC N 2
 Hinson, William Talmadge, Jr. TC C 2
 Hipple, Harris Blair EC N 7
 Hoagland, William Robinson TC N 2
 Hodgkins, Norris Lowell TC N 3
 Hodson, Thomas Sherwood TC N 2
 Hoehl, John Robert TC N 7
 Hofmeister, George Carl TC N 3
 Hoge, DeForest TC N 7
 Hoke, George Clayton TC N 3
 Cicero, Ill.
 Painesville, Ohio
 Durham, N. C.
 Williamston, N. C.
 Glenville, W. Va.
 Norfolk, Va.
 Charlotte, N. C.
 Rankolph, N. Y.
 Milton, Pa.
 Charleston, S. C.
 Elkridge, Md.
 Petersburg, Va.
 Henderson, N. C.
 Sanford, N. C.
 Durham, N. C.
 Mt. Vernon, Ohio
 Greensboro, N. C.
 Ravenswood, W. Va.
 Detroit, Mich.
 Chattanooga, Tenn.
 High Point, N. C.
 Greensboro, N. C.
 Kingstree, S. C.
 Memphis, Tenn.
 Virginia Beach, Va.
 Jordan, N. Y.
 Huntington, W. Va.
 Greensboro, N. C.
 Park Ridge, Ill.
 Gainesville, Fla.
 Chicago, Ill.
 Isafjordur, Iceland
 Andrews, S. C.
 Wendell, N. C.
 Columbia, S. C.
 Loris, S. C.
 Baltimore, Md.
 Atlanta, Ga.
 Arlington, Va.
 Man, W. Va.
 Charleston, S. C.
 Richmond, Va.
 Laconia, N. H.
 Grand Rapids, Mich.
 Wilmington, N. C.
 Bakersfield, Calif.
 Shreveport, La.
 Ridley Park, Pa.
 Bronxville, N. Y.
 Decatur, Ala.
 Marshville, N. C.
 Spring City, Pa.
 Trenton, N. J.
 Southern Pines, N. C.
 Hendersonville, N. C.
 Coral Gables, Fla.
 Pittsburgh, Pa.
 Bronxville, N. Y.
 Claremont, N. C.

Holder, Clarence Perry EC N 4
 Holland, Ray Walter EC N 3
 Hollister, Charles Curtis TC C 1
 Holmes, Brandon McConnell TC N 3
 Holmes, Edward William TC C 1
 Holroyd, William Casper TC C 2
 Holt, Bevely Dan TC N 2
 Holtan, Hans Olaf TC C 1
 Holton, Holland Young TC C 6
 Homan, Henry H. TC C 3
 Hood, Richard Thornton TC N 7
 Hooper, Glenn Lee, Jr. TC C 1
 Hopkins, James Ira TC C 1
 Hopkins, Waring Carrington TC C 8
 Horne, Harold Claude TC C 1
 Hottentstine, Richard Daniel TC C 2
 Houk, Joseph Thomas TC N 5
 Houtman, John Francis, Jr. TC N 2
 Houtz, Jesse Frank TC C 1
 Howard, Lyman Edward TC C 1
 Howerton, Beverly Royster TC C 5
 Hudkins, Malcolm Everett EC N 3
 Hudson, Homer TC C 1
 Hudson, Ralph Fletcher TC N 5
 Huelser, George Wells TC C 4
 Hughes, Lawrence Josiah TC N 3
 Hughes, Thomas Pinckney TC C 2
 Hughes, William Edward TC N 3
 Hull, Ezekiel Hoover TC C 2
 Humphrey, Robert LeRoy TC N 3
 Humphreys, Charles Wesley TC N 5
 Humphries, Bishop Marvin, Jr. TC C 4
 Hunter, William Cecil, Jr. TC N 2
 Huntley, Justus Robert TC N 7
 Hurst, James Walter TC N 3
 Hurwitz, Irving TC N 3
 Hutchinson, Ronald Lee EC C 4
 Hutto, Clinton Brunson TC N 1
 Hutton, William Caldwell TC N 2
 Hyde, Edward William TC C 1
 Imhoff, John Leonard EC N 6
 Inman, Walter Griffey TC N 2
 Irwin, Frank Moore EC N 7
 Ivanovsky, Donat V. TC C 7
 Jacobs, Ralph William TC N 5
 Jahnke, William Robert TC N 3
 James, Charles Macarthur TC C 2
 Janatka, Joseph TC N 4
 Jarrell, Mack C. TC N 3
 Jarvis, Hallett Ward TC C 5
 Jernigan, George Julius, Jr. TC C 1
 Jerome, Henry London EC N 4
 Jeske, Richard John EC N 2
 Jilcott, Clarence Poe EC N 5
 Johnson, Eugene Blair TC C 1
 Johnson, John Nasbitt TC N 2
 Johnson, Ragnar Edwin TC C 1
 Johnson, Randall Robert TC N 3
 Jones, John Charles TC N 4
 Jones, John H. TC N 7
 Blakely, Ga.
 Afton, Tenn.
 Ft. Lauderdale, Fla.
 Statesville, N. C.
 St. Paul, Minn.
 Greenwood, S. C.
 Milan, Tenn.
 Westerleigh, N. C.
 Durham, N. C.
 Lebanon, Pa.
 Kinston, N. C.
 Dunn, N. C.
 Baltimore, Md.
 Merion, Pa.
 Raleigh, N. C.
 Leesport, Pa.
 Indianapolis, Ind.
 Clayton, Del.
 Fayetteville, N. C.
 Midland, Mich.
 Durham, N. C.
 Baltimore, Md.
 High Point, N. C.
 Mt. Morris, Ill.
 Staten Island, N. Y.
 Quincy, Ill.
 Sumter, S. C.
 Charlottesville, Va.
 Reidsville, N. C.
 Baltimore, Md.
 Washington, D. C.
 Charlotte, N. C.
 Phoenix, Ariz.
 Westfield, N. J.
 Seminole, Okla.
 Washington, D. C.
 Duncan, W. Va.
 Perry, S. C.
 Collierville, Tenn.
 New York, N. Y.
 Baltimore, Md.
 Paris, Tenn.
 Raleigh, N. C.
 Valley Cottage, N. Y.
 Plainfield, N. J.
 Pittsburgh, Pa.
 Mexico, Mo.
 Berwyn, Ill.
 Ceredo, W. Va.
 Charleston, S. C.
 Brunswick, Ga.
 Pittsboro, N. C.
 Westfield, N. J.
 Kelford, N. C.
 Brooklyn, N. Y.
 Clay, Ky.
 Charleston, S. C.
 Lakewood, Ohio
 Grassy Creek, N. C.
 Ashley, Pa.

- Jones, Luther Clarke TC N 7
 Jones, Robert S. TC N 3
 Jones, Roger Kent TC N 6
 Jones, Tenley Moon TC N 2
 Jordan, Riley Moore TC N 3
 Jordan, Samuel Kelly TC N 4
 Josey, John Speir TC C 3
 Joy, William A. TC C 9
 Joye, Raleigh La Verne TC N 4
 Judge, Richard Bernard EC N 3
 Jules, Philip TC N 6
 Justice, Louis Eugene TC N 7
 Kagarise, Ronald Eugene TC N 2
 Karcher, Duncan Edward, Jr. TC N 4
 Katzenstein, Henry Sour EC C 4
 Kea, Kirk Ira EC N 3
 Kearns, Tom Johnston, Jr. TC C 2
 Keeney Carl Roy TC N 5
 Keevan Thomas John TC N 4
 Keffer Ernest Jackson, Jr. TC N 4
 Keller, Robert Taylor TC C 2
 Keller, William Slotterback TC C 2
 Kelly, James Gerald EC N 7
 Kelly, John Vincent TC N 4
 Kenney, John Franklin TC N 4
 Kereazes, John August TC N 4
 Kerr, William John, III TC C 4
 Key, Charles Marion TC N 2
 Keyser, Walter Frank TC N 4
 Kibler, Robert Franklin TC C 7
 Kilmer, Donald Allan TC N 4
 Kimbrell, Jay Edward TC C 2
 Kimbrough, William Clark TC C 1
 Kimpflen, Joseph Francis TC N 3
 King, Joseph Calvin EC N 5
 Kirkman, David Clifton EC N 6
 Kirkpatrick, Ronald Eugene TC N 2
 Klaaren, Hobart Ernest TC N 5
 Klein, Morton EC N 4
 Kline, William Rexroad TC N 2
 Kloss, Lester Kenneth TC N 3
 Knabe, Lloyd Condon, Jr. TC N 6
 Knoble, John Leonard, Jr. TC N 3
 Knotts, Ernest Mack TC N 6
 Knox, Robert William TC C 1
 Koenig, Elmer August EC N 4
 Koffenberger, Edward L. TC N 3
 Kolodne, Walter Jerome EC N 6
 Koonce, Arnold Jackson TC N 6
 Kowalski, Ludwig Robert TC N 2
 Kozluk, Walter TC N 4
 Kriser, Louis TC N 2
 Krisza, John, Jr. TC N 4
 Krouk, Bernard Benjamin TC C 1
 Kruse, Richard Harry TC C 1
 Kuhlman, Ormand Frederick TC N 4
 Kulow, Frederick Charles TC N 4
 Kunkel, Walter Thomas TC C 4
 Kunkle, Craig Boyer TC C 1
 Kurtz, William B. EC N 7
 Richmond, Va.
 Rockville Centre, N. Y.
 Manhattan, Ill.
 Washington, D. C.
 Timberland, N. C.
 Albemarle, N. C.
 Bartow, Ga.
 Ventnor, N. J.
 Columbia, S. C.
 Wilmington, Del.
 Los Angeles, Calif.
 Lynchburg, Va.
 Roaring Spring, Pa.
 New York, N. Y.
 Shreveport, La.
 Richmond, Va.
 High Point, N. C.
 Glen Ferriss, W. Va.
 Forest Hills, N. Y.
 Roanoke, Va.
 Avon Park, Fla.
 Mowry, Pa.
 Durham, N. C.
 Jackson Heights, N. Y.
 Scottsdale, Pa.
 Chicago, Ill.
 Durham, N. C.
 Cairo, Ga.
 Penns Park, Pa.
 Durham, N. C.
 River Forest, Ill.
 Durham, N. C.
 Baton Rouge, La.
 Philadelphia, Pa.
 Leaksville, N. C.
 Pleasant Garden, N. C.
 Covington, Ky.
 Chicago, Ill.
 New York, N. Y.
 Washington, D. C.
 Sharon, Pa.
 Catonsville, Md.
 Phillipsburg, N. J.
 Albemarle, N. C.
 Alexandria, Va.
 Libertyville, Ill.
 Wilmington, Del.
 Washington, D. C.
 High Point, N. C.
 Belleville, N. J.
 New York, N. Y.
 Brooklyn, N. Y.
 McKees Rocks, Pa.
 Newark, N. J.
 Plymouth, N. C.
 Elmore, Ohio
 Milwaukee, Wis.
 Easton, Pa.
 Johnstown, Pa.
 Waterbury, Conn.

Kusturiss, Michael Emanuel TC N 7
 Kyle, Joe Merrill TC N 2
 Laakso, Leslie Raymond TC N 4
 Lamb, Warren Stacy TC N 4
 Land, Morton Lewis TC C 2
 Landis, Richard Vincent TC N 3
 Landon, Donald Omar TC C 3
 Lane, John Goethe, Jr. TC N 5
 Lange, Carl James TC N 5
 Lapp, Robert Edward TC C 2
 Larkin, Israel Shirk EC N 3
 LaRue, Jim Elmer TC N 5
 Lasley, Donald Gray TC C 1
 Latimer, Starr Orion EC N 3
 Lauro, Vito John TC N 5
 Lawless, Joseph Thomas, III TC N 2
 Lear, Robert Evans TC N 3
 Leary, James Edward TC C 4
 Lee, Edwin Borden, Jr. TC N 7
 Lee, James Harold TC C 2
 Lee, Joseph Martin, Jr. TC N 3
 Legare, John Edward TC N 3
 Leigh, Robert Edward, Jr. TC C 7
 Leinung, John Gustave TC N 3
 Leisy, Melvern Krehbiel TC C Special
 Leitheiser, William John TC C 7
 Lent, Robert Eugene TC N 4
 Lentz, John Franklin TC C 2
 Leonard, Holland Braudis, Jr. TC C 2
 Leslie, James Robert TC C 1
 Letters, Howard Wesley, Jr. TC N 2
 Leu, Rudolph Robert TC N 2
 Levy, J. Leo EC N 8
 Lewis, Clifford Allen TC C 4
 Liddle, Thomas Keen TC N 4
 Lieving, Robert Edgar TC N 3
 Lilly, Edward Charles TC N 3
 Lindsey, Willis Callaway, Jr. TC C 2
 Linker, Edward Markham TC N 2
 Lipscomb, Tommy Smith TC C 2
 Lipsitz, Lee Stanley TC C 5
 Lissau, Melvin Samuel EC N 3
 Llewellyn, Linus William TC N 2
 Lockhart, David Kelly EC C 5
 Lockhart, Frank Grauch EC N 3
 Lodor, James Craig EC N 8
 Loftin, Horace Greeley TC C 2
 Logan, Robert Henry, Jr. TC N 2
 Long, Fred LeRoy TC N 3
 Longley, Clarence Mobley, Jr. TC N 3
 Loucks, Robert LaMonte TC C 3
 Love, Bruce Adam TC C 1
 Love, Nash Monroe EC N 4
 Lowdermilk, Robert Elbert TC C 2
 Lowe, Donald Scott TC N 4
 Lucas, Stephen John TC N 5
 Lundstrom, George Henry TC N 3
 Luttrell, John Lore TC N 2
 Lyerly, James Gilbert, Jr. TC N 6
 Lynch, George Cunningham TC N 2

Canonsburg, Pa.
 Tacoma Park, Md.
 Eben Junction, Mich.
 William Island, Neb.
 Baltimore, Md.
 New Holland, Pa.
 Durham, N. C.
 Jacksonville, Fla.
 Oil City, Pa.
 Irvington, N. J.
 St. George, Utah
 Clinton, Okla.
 Walkertown, N. C.
 St. Petersburg, Fla.
 Brooklyn, N. Y.
 Norfolk, Va.
 Columbus, Ohio
 Jonesboro, Ark.
 Goldsboro, N. C.
 Charlotte, N. C.
 Erwin, N. C.
 Waycross, Ga.
 Kinston, N. C.
 Bronx, N. Y.
 Dallas, Tex.
 Clearwater, Fla.
 Minneapolis, Minn.
 Ellerbe, N. C.
 High Point, N. C.
 Greenup, Ky.
 Crafton, Pa.
 Akron, Ohio
 Baltimore, Md.
 Cleveland, Ohio
 Akron, Ohio
 Mason, W. Va.
 New Orleans, La.
 Washington, Ga.
 Chapel Hill, N. C.
 Angier, N. C.
 Ahoskie, N. C.
 Baltimore, Md.
 Chattanooga, Tenn.
 Durham, N. C.
 Philadelphia, Pa.
 Wilmington, N. C.
 Beaufort, N. C.
 Seaford, Del.
 Lennon, Mich.
 Orlando, Fla.
 Baltimore, Md.
 Charlotte, N. C.
 Charlotte, N. C.
 Greensboro, N. C.
 Key West, Fla.
 Beavertdale, Pa.
 New York, N. Y.
 Memphis, Tenn.
 Jacksonville, Fla.
 Hillsboro, N. C.

- Lyon, William H., Jr. TC C 1
 McCabe, William John, Jr. TC N 4
 McCall, William TC N 5
 McCanless, Edgar Eugene TC C 7
 McCarrick, Addison Taylor TC N 3
 McCarver, Charles Truitt TC N 4
 McClamroch, William Porter TC C 2
 McCloskey, William Francis TC N 3
 McCown, Wallace Hardin TC N 7
 McCoy, John Philip TC N 2
 McCreight, Paul Willard TC N 7
 McCullough, William Victor TC N 2
 McCutcheon, William Benson, Jr. TC C 1
 McDonald, John Erle, Jr. TC N 4
 McDonald, Raymond Oswald, Jr. TC N 4
 McDonald, William Maddox TC N 5
 McDonnell, Harry Aloysius TC N 2
 McEldowney, Thomas Cairns TC N 4
 McGowan, Keith Dunham EC N 5
 McGreevey, Robert Dillon TC N 2
 McHugh, Kenneth Laurence TC N 2
 McKee, William David EC N 5
 McKenzie, Thomas Marshall, Jr. TC N 2
 McKinley, Charles Alexander TC N 4
 McKinnon, Arnold Borden TC C 1
 McLarty, Colin Slator TC N 3
 McLaughlin, Harold Joseph TC N 2
 McMillan, Edward Webb TC N 5
 McMurran, William Royall EC N 7
 McMurray, Samuel Franklin TC N 4
 McMurry, Benjamin Franklin, Jr. TC N 5
 McWhorter, John Lloyd TC N 4
 MacArthur, Eugene Robert TC N 6
 MacArthur, Neal Pat, Jr. TC C 2
 Macbeth, William Benson TC N 4
 Mack, Robert Kenneth TC N 4
 MacKenzie, Robert Preston, Jr. TC N 2
 Macrae, Robert Baird TC N 3
 Madlon, Eugene August TC N 2
 Maginnis, James Barrett TC N 4
 Mahoney, Harry Linwood, Jr. TC N 2
 Mairs, Daniel Atlee TC N 2
 Majzun, Joseph, Jr. TC N 3
 Makosky, Robert Charles TC C 7
 Malcolm, Robert Samuel TC C 4
 Malloy, Justin Warren TC N 2
 Mangan, Lawrence Daniel TC C 2
 Mann, Frederick L., Jr. EC C 9
 Manning, Walter Harold TC N 6
 Markey, John Joseph EC C 7
 Markham, Charles Buchanan TC C 7
 Maros, George Theodore TC N 4
 Marsh, Spinks Hamilton TC C 8
 Martin, Bartlett Yancy TC N 4
 Martin, Francis Benedict, Jr. TC N 2
 Martinat, Edwin Henry TC N 5
 Maruschak, Peter EC N 4
 Massey, Thomas Benjamin TC N 4
 Massi, Arthur Carmen, Jr. TC N 2
 Masson, James E. TC C 2
 Creedmoor, N. C.
 Cambridge, Mass.
 Winston-Salem, N. C.
 Canton, Ga.
 Philadelphia, Pa.
 Bridgeport, Conn.
 Durham, N. C.
 New Brunswick, N. J.
 Johnson City, Tenn.
 Mt. Pleasant, Tenn.
 Huntington, W. Va.
 Pittsburgh, Pa.
 Durham, N. C.
 Norfolk, Va.
 Tampa, Fla.
 Washington, D. C.
 Washington, D. C.
 Charleston, W. Va.
 Waycross, Ga.
 Garden City, N. Y.
 New York, N. Y.
 Forest Hills, N. Y.
 Memphis, Tenn.
 Siloam, Ga.
 Lumberton, N. C.
 Swarthmore, Pa.
 Freeport, N. Y.
 Charleston, S. C.
 Norfolk, Va.
 Tampa, Fla.
 Knoxville, Tenn.
 Waxhaw, N. C.
 Leesville, La.
 Goldsboro, N. C.
 Ventnor, N. J.
 St. Louis, Mo.
 Washington, N. C.
 Plainfield, N. J.
 Ferdinand, Ind.
 Baltimore, Md.
 Raleigh, N. C.
 Charleston, W. Va.
 Bellaire, Ohio
 Alhambra, Calif.
 Dayton, Ohio
 Washington, D. C.
 Chicago, Ill.
 Drexel Hill, Pa.
 Miami, Fla.
 Washington, Pa.
 Durham, N. C.
 Margate City, N. J.
 Monroe, N. C.
 Herndon, Va.
 Clarksburg, W. Va.
 Lenoir, N. C.
 Altoona, Pa.
 Charlotte, N. C.
 Bristol, Pa.
 Central Igualdad, P. R.

Masters, Richard Warren	TC N 4	Hershey, Pa.
Mathis, William Lowrey	TC N 2	Memphis, Tenn.
Mathisen, Glenn Estes	TC N 3	Norfolk, Va.
Mathison, George Haakon	TC C 1	Queens Village, N. Y.
Matthai, Paul Frederick	TC N 4	Baltimore, Md.
Matthews, James C.	TC N 5	Winton, N. C.
Matzen, Robert T.	TC N 3	Grand Island, Neb.
Mayo, Joseph Dixon, Jr.	TC N 4	Henderson, N. C.
Mays, Alexander Alen	TC N 5	Pittsburgh, Pa.
Meacham, Hudson Peavy	TC C 2	Jacksonville, Fla.
Meade, Richard A.	TC N 3	Flint, Mich.
Meadows, Richard Lynn	TC N 2	Knoxville, Tenn.
Means, Harvey Hugh	TC N 4	Mojave, Calif.
Meek, James Monroe, Jr.	TC N 3	Knoxville, Tenn.
Meekins, James Claiborne	TC N 2	High Point, N. C.
Megroz, Pierre Roger	TC N 2	Mt. Vernon, N. Y.
Melero, Andres T.	TC C 3	Puerto de Tierra, P. R.
Menna, Joseph	EC N 4	New Haven, Conn.
Merrick, Robert Wakefield	TC N 5	Salina, Kan.
Mesce, Louis Michael	TC C 1	Newark, N. J.
Mesler, Robert Gerald	TC N 2	Erie, Pa.
Messer, Henry Davis	TC C 2	Madison, Fla.
Messinger, Arthur Louis, Jr.	TC N 6	Chicago, Ill.
Metzger, Linwood Hugh	TC N 4	Richmond, Va.
Meyersieck, Thomas Milton	TC N 4	University City, Mo.
Millenson, Donald Harvey	EC N 3	Denver, Col.
Miller, James Herbert, Jr.	TC C 2	Morehead City, N. C.
Miller, Jesse Edward	TC N 3	Graceville, Fla.
Miller, Kenneth Elwood	TC N 5	Sacramento, Calif.
Miller, Marvin Parmeck	TC N 7	Chicago, Ill.
Miller, Norman Maurice	TC N 2	Washington, D. C.
Miller, Richard Hershey	TC N 2	Glenside, Pa.
Miller, William Henry, Jr.	TC N 2	Chicago, Ill.
Miller, William Hugh, Jr.	EC N 7	Highland Park, Mich.
Milne, Peter	TC N 4	Niagara Falls, N. Y.
Milone, Robert Louis	TC N 2	Livingston, N. J.
Mirabito, Thomas William	TC N 2	Santa Monica, Calif.
Mishler, Alston Herbert	TC N 3	Cleveland, Ohio
Mitchell, John William	EC N 3	Duluth, Minn.
Moen, Roger Orin	TC N 7	Raleigh, N. C.
Moeves, Charles John	TC N 3	Covington, Ky.
Montgomery, Clinton H.	EC N 3	Waco, Tex.
Moody, Frank Eugene	TC N 2	Asheville, N. C.
Moore, Louis Doyle, Jr.	TC C 5	Toccoa, Ga.
Moore, William Philip, Jr.	TC C 2	Greenville, N. C.
Morgan, Everette Lee	TC C 1	Salisbury, N. C.
Morgan, James LeRoy	TC N 5	Norfolk, Va.
Morgan, Paul Justice	TC N 3	Kernersville, N. C.
Morgan, Raymond James	TC N 2	Seattle, Wash.
Morris, Russell Miller	TC N 2	Harrisonburg, Va.
Mullen, Harris Hopkins	TC N 4	Tampa, Fla.
Muller, Donald H.	EC N 8	Brooklyn, N. Y.
Mulvey, Edward Thomas	TC C 2	Greensboro, N. C.
Munro, Bursell G.	TC N 4	Miami, Fla.
Murff, James Theo	TC N 3	Calhoun City, Miss.
Murphy, Alvin Rush, Jr.	EC N 4	Knoxville, Tenn.
Murphy, James Fred	TC N 3	Euclid, Ohio
Murphy, Robert Logan	TC N 4	Ocala, Fla.
Murray, Donald, Jr.	TC N 2	Roanoke, Va.
Murray, John Kevin	TC N 3	Long Island, N. Y.

- Murray, Robert J. TC N 3
 Murrell, Charles D. TC N 3
 Muscheck, Charles O. TC N 3
 Myerberg, Alvin Jerome TC C 2
 Myers, Robert Eugene TC N 5
 Nagle, Clifford Albert, Jr. EC N 3
 Nagler, Gordon Richard TC N 4
 Napier, Baxter Wilson, Jr. TC N 4
 Narron, Talmadge L. G. TC N 7
 Nash, James Frank, Jr. TC C 3
 Neece, Talmadge Macon TC N 7
 Neely, Aaron Buford EC N 3
 Nelson, Kenneth Carl TC N 4
 Neudecker, Joseph Wheeler, Jr. TC N 2
 Newburg, Peter Lee TC N 5
 Newell, Bruce, Jr. TC C 1
 Newell, Ernest Tittle TC C 2
 Newlands, Lester William TC N 2
 Newman, Ernest Gustave TC N 4
 Newman, Van Talberg, Jr. TC C 2
 Newsome, George Hassell TC N 3
 Newton, Ernest Cliborne TC N 5
 Newton, Robert Lee TC N 6
 Nichols, Elwyn Coats TC N 3
 Nichols, Philip Andrew TC C 2
 Nickerson, Marcus Franklin, III TC N 5
 Nickinson, Edward Phillips, Jr. EC C 4
 Nist, Donald Edward TC N 5
 Nolen, Andrew Jack TC N 4
 Noon, Joseph Francis EC N 3
 Nordin, Warren Alfred TC N 5
 Nordstrom, Frank B. TC N 5
 Norris, John Ernest, Jr. EC N 8
 Norris, Robert Willingham EC N 7
 Northup, Aldrich Holt TC N 6
 Nunnally, James Ray TC N 7
 Oakes, Burton David TC N 3
 Oakely, Bill Thompson TC N 2
 Obenchain, John Alan EC N 3
 O'Briant, Paul William, Jr. TC N 2
 O'Brien, James Dennis TC N 3
 O'Connor, James Benjamin TC C 2
 Oder, Robert James TC N 7
 O'Hara, John Joyce TC N 2
 Olds, Bomar Amos TC N 2
 Ollen, Walter George TC N 4
 Olsen, John Hardman TC N 2
 O'Neill, David Henry, Jr. TC N 2
 Oosterhoudt, Allen C. TC C 4
 Ornoff, Harold EC C 8
 Ostendarp, George William TC N 2
 Owen, Lincoln TC C 4
 Oyen, William TC N 5
 Pace, Thomas Marshall TC C 6
 Page, Ernest Benjamin, Jr. TC N 5
 Page, Robert Lionel TC N 5
 Pardee, Graham F. TC N 4
 Park, Ulna Foster TC N 5
 Parr, Ross Clayton TC N 5
 Pasquinelli, Leo John TC N 4
 Warwick Downs, R. I.
 Portsmouth, Va.
 Philadelphia, Pa.
 Baltimore, Md.
 Clinton, Ill.
 New Brunswick, N. J.
 Baltimore, Md.
 Louisville, Ky.
 Kenly, N. C.
 Alderson, W. Va.
 Pleasant Garden, N. C.
 Cookeville, Tenn.
 Elkhart, Ind.
 Memphis, Tenn.
 Austin, Minn.
 Roxboro, N. C.
 Bryson City, N. C.
 Southbridge, Mass.
 Pensacola, Fla.
 Sumter, S. C.
 Tarboro, N. C.
 Skipwith, Va.
 Durham, N. C.
 Birmingham, Ala.
 Owego, N. Y.
 Knoxville, Tenn.
 Pensacola, Fla.
 Chicago Heights, Ill.
 Winona, Tex.
 Baltimore, Md.
 La Grange, Ill.
 Glen Elyn, Ill.
 Columbia, N. C.
 Chattanooga, Tenn.
 Pensacola, Fla.
 Hugo, Okla.
 Greensboro, N. C.
 Nashville, Tenn.
 Logansport, Ind.
 Washington, D. C.
 Lake City, Iowa
 Chauncey, Ga.
 Toledo, Ohio
 Washington, D. C.
 College Park, Ga.
 Jamaica, N. Y.
 Wilmington, N. C.
 Memphis, Tenn.
 Jacksonville, Fla.
 Durham, N. C.
 Baltimore, Md.
 Cleveland, Ohio
 Chicago, Ill.
 Pensacola, Fla.
 Raleigh, N. C.
 Erick, Okla.
 Floral Park, N. Y.
 Columbia, Tenn.
 Kalamazoo, Mich.
 Baltimore, Md.

- Patafio, John Joseph TC N 4
 Patrick, William Franklin TC N 5
 Patton, Michael Franklyn TC N 5
 Paulson, Theodore Bill TC N 4
 Paytash, Joseph, Jr. TC N 5
 Pearce, William Beacham TC N 2
 Pearlson, Raymond TC N 3
 Pearson, Cordie Lester, Jr. TC N 4
 Pease, Robert Glenn TC N 4
 Peeler, Burlie Starr, Jr. TC C 2
 Peeples, Paul Wiggins TC C 2
 Peksa, Charles Francis TC N 4
 Pelletier, Jere Walter TC N 1
 Penick, Edward Crenshaw TC N 4
 Pennington, Donald Bond TC N 4
 Pennington, Schuyler Wayne TC C 5
 Penske, Herbert Willis TC N 2
 Perini, Edward Paul TC C 2
 Perlow, Albert TC N 4
 Perry, Leland Myre TC N 4
 Perryman, Frank Gene TC N 3
 Peters, Charles Eugene TC C 5
 Peters, James Edward TC N 4
 Petersen, Charles Andrews TC N 5
 Peterson, Herrick Roland TC N 7
 Petraitis, Tony TC N 3
 Pfaff, Andrew John TC N 7
 Pfeffer, Louis Roland TC C 2
 Phelps, Harry C., Jr. TC C 1
 Phillippi, John Warren TC N 3
 Phillips, Leonard TC N 7
 Piccone, Domenic TC N 5
 Pierce, John Everett, Jr. TC C 2
 Pingitore, Joseph Mario, Jr. TC C 2
 Pittman, Luther Hollingsworth TC N 7
 Plosica, Robert Raymond TC C 2
 Plunkett, Robert Dale TC N 4
 Plutshack, Charles L. TC N 3
 Poe, Robert Giles TC N 2
 Poerschke, Edward Robert TC N 4
 Pogany, Ernest Julius EC C 2
 Polinger, David Harris TC C 2
 Pope, Warren Harold TC C 3
 Porter, David Gordon TC C 2
 Posavec, John J. TC C 1
 Post, Jerald Bernard TC N 5
 Powell, Harry Rutter EC N 7
 Powell, John Henry TC N 4
 Pratt, Edmund Taylor, Jr. TC N 2
 Preslar, Mack Judson TC C 2
 Presson, James Roy, Jr. TC C 4
 Preston, John Edward TC N 2
 Priemer, August Bernhard TC C 4
 Procopion, Samson John EC N 7
 Proctor, James Wardwell, Jr. TC N 2
 Proeschel, John, Jr. TC N 3
 Progler, Harry Smith EC N 4
 Pruitt, James Henry TC N 4
 Ptaschinski, George Howard TC N 2
 Pumpian, Benton Joseph TC C 2
 Brooklyn, N. Y.
 St. George, S. C.
 Spartanburg, S. C.
 Newaygo, Mich.
 Lafferty, Ohio
 Greenville, S. C.
 Arverne, N. Y.
 Wilmington, N. C.
 Canandaigua, N. Y.
 Kings Mountain, N. C.
 Estill, S. C.
 Catonsville, Md.
 Maysville, N. C.
 Hopkinsville, Ky.
 York, Pa.
 Mt. Holly, N. C.
 Cheverly, Md.
 Stewartsville, N. J.
 Baltimore, Md.
 Walker, Mo.
 Sylacauga, Ala.
 Alexander, Iowa
 Cambridge, Mass.
 Elgin, Ill.
 Day Brook, N. C.
 Chicago, Ill.
 Riverton, N. J.
 St. Albans, N. Y.
 Crestview, Fla.
 Roanoke, Va.
 Pittsburgh, Pa.
 Ardmore, Pa.
 Daytona Beach, Fla.
 Long Beach, N. J.
 Baltimore, Md.
 Irvington, N. J.
 Fowler, Ind.
 Milwaukee, Wis.
 Brooksville, N. Y.
 Detroit, Mich.
 Bridgeport, Conn.
 Mt. Vernon, N. Y.
 Bordentown, N. J.
 Lenoir, N. C.
 Halifax, Pa.
 Palisade, Neb.
 Norfolk, Va.
 Miamisburg, Ohio
 Elkton, Md.
 Durham, N. C.
 Newport News, Va.
 Cheverly, Md.
 New York, N. Y.
 Waterbury, Conn.
 Scarsdale, N. Y.
 Toledo, Ohio
 Clarksburg, W. Va.
 Danville, Va.
 Newark, N. J.
 Baltimore, Md.

- Putnam, Gerrie Price TC N 3
 Pyne, Thomas Charles TC N 5
 Quinn, Amory Edward, Jr. TC N 4
 Raether, Harold TC N 4
 Ragsdale, Lee Morris EC N 4
 Rains, James Breer TC N 3
 Ramey, Robert Lee EC N 7
 Rankin, William Charles TC N 2
 Ranon, Severin Donald EC C 6
 Raper, William Burkette TC C 2
 Ratcliff, James Calvin TC C 2
 Rawlings, George McGee TC C 1
 Rayburn, John Hale TC N 3
 Reece, Mark Holcomb TC N 4
 Regester, Robert Thomas TC C 3
 Reid, Jack D. TC C 2
 Reid, Paul Richard EC N 4
 Remer, Bertram Robert EC N 4
 Rentz, Thomas Eugene TC C 5
 Repokis, Henry TC N 3
 Ressler, Duane Wilbur TC N 4
 Reynolds, James Taylor TC C 1
 Reynolds, Louis Francis TC N 3
 Rhoades, Verne, Jr. TC C 1
 Rhyne, Gene Howard TC C 2
 Rickert, Robert Dale TC N 7
 Ridenhour, Ernest Winford TC N 2
 Rigsbee, Albert Vinson TC N 5
 Rigsbee, John Taylor TC N 2
 Riley, Joseph Paul TC N 7
 Rinne, John TC C Special
 Ritchie, James Sutton TC N 2
 Rivers, Charles Guy EC N 7
 Roach, Francis L. TC N 5
 Roach, Henry Herman, Jr. TC N 3
 Roberts, Levi James TC N 6
 Roberts, William Edgar TC N 2
 Robin, Clayton, Jr. TC N 2
 Robinson, Grover Cleveland TC N 2
 Robinson, Harry Delmer, Jr. EC C 8
 Robinson, John Herbert TC N 2
 Robinson, Ted Hansen TC C 2
 Rocker, Charles Lamar, Jr. TC N 4
 Roden, Howard Melville TC N 3
 Roellke, Robert Louis TC C 3
 Rogers, Kale Eugene TC N 4
 Rogers, Ralph Peele, Jr. TC N 5
 Rollman, Howard TC N 4
 Rosenberg, Walter Daniel, Jr. TC N 2
 Rosenfeld, Leon Victor TC C 1
 Ross, Donald Melvin TC N 2
 Ross, Walter Lee EC N 4
 Rossman, Marion Edgar TC N 4
 Rosson, Roland Broadus, Jr. TC N 3
 Rothey, Donald Calvin TC C 1
 Rothwell, Robert Joseph TC N 2
 Rouzer, George L. TC N 3
 Rowe, Frank Hamett, Jr. EC N 7
 Rowe, Joshua Tillman EC N 4
 Ruehl, Theodore G. TC N 5
 Washington, D. C.
 Pittston, Pa.
 Birmingham, Ala.
 Toledo, Ohio
 Knoxville, Tenn.
 Sewickley, Pa.
 Middleton, Ohio
 Charlotte, N. C.
 Irvington, N. J.
 Middlesex, N. C.
 Winston-Salem, N. C.
 Lookout Mountain, Tenn.
 Benton, Ky.
 Jonesville, N. C.
 Baltimore, Md.
 New York, N. Y.
 Pasagoula, Miss.
 Miami Beach, Fla.
 Columbus, Ga.
 Detroit, Mich.
 Harrisburg, Pa.
 Plainfield, N. J.
 Cranston, R. I.
 Asheville, N. C.
 Atlanta, Ga.
 Tuckahoe, N. Y.
 Albemarle, N. C.
 Durham, N. C.
 Durham, N. C.
 Tampa, Fla.
 Pittsburgh, Pa.
 Charlottesville, Va.
 New Rochelle, N. Y.
 Chicago, Ill.
 Raleigh, N. C.
 Norfolk, Va.
 Watertown, N. Y.
 White Plains, N. Y.
 Chattanooga, Tenn.
 Winchester, Va.
 Marshalltown, Iowa
 Shreveport, La.
 Lakeland, Fla.
 Baltimore, Md.
 Maplewood, N. J.
 Centralia, Ill.
 Durham, N. C.
 Baltimore, Md.
 Norfolk, Va.
 Fayetteville, N. C.
 Baltimore, Md.
 Baltimore, Md.
 Altoona, Pa.
 Washington, D. C.
 Elizabeth, Pa.
 Boston, Mass.
 Laidig, Pa.
 Washington, D. C.
 Baltimore, Md.
 Chicago, Ill.

- Rumbaugh, Frank Clayton EC N 8
 Russell, Donald, Jr. EC C 5
 Russell, George Thompson EC C 5
 Rusziewicz, Joseph Francis TC N 4
 Rutland, Richard Oliver, Jr. TC N 4
 Rutledge, Elbert Stephen TC C 1
 Sakas, Joseph TC N 2
 Salter, Wallace Bruce TC N 5
 Sanders, Tye Carter, Jr. TC N 2
 Sapp, Earle Walter, Jr. TC N 3
 Sapp, Ora William TC N 4
 Saturday, Harrison Kenneth EC N 7
 Sauceman, Wayland Harris TC N 2
 Saunders, Robert Neal EC N 7
 Sayre, Clifford LeRoy, Jr. TC N 2
 Scahill, Thomas J. TC N 4
 Scalf, John Henry, Jr. TC N 2
 Scanlon, William John EC N 6
 Schenck, David TC N 2
 Schlie, Roland Wendal EC N 4
 Schnell, Charles Norman TC N 7
 Schott, Lawrence Frederick TC C 2
 Schroeder, Hobart Arthur EC N 7
 Schuler, Edwin Denby TC N 4
 Schwartz, Richard Daniel TC N 4
 Schweinfurth, Joseph David TC N 6
 Scollard, Robert Joseph TC N 5
 Scott, Charles William TC N 4
 Scott, Howard Blake TC C 2
 Scott, Robert Lorne TC N 2
 Scott, Walter, Jr. TC N 6
 Scott, William Edward, Jr. TC N 2
 Seabury, John Webster TC N 2
 Sealy, Leuico Benjamin, Jr. TC N 3
 Seay, James Lee TC C 2
 Sedwick, B. Frank TC N 7
 Seese, Robert Morrison TC C Special
 Seidner, Roger Benton TC N 5
 Semmes, Granville Martin TC N 2
 Settle, Edward Alfred TC C 1
 Seymour, Robert Edward, Jr. TC N 7
 Shaffer, John Taylor TC C 1
 Shapiro, Henry Leon EC N 3
 Shapiro, Oscar William TC C 2
 Sharkey, Edward Joseph TC C 2
 Sharpe, Edward Robbin TC C 1
 Shaw, Charles Henry TC N 4
 Shea, Thomas William, Jr. TC C 2
 Shealy, Cecil Elton TC N 3
 Shehee, Ayles Berry, Jr. TC N 2
 Sherertz, Robert Francis TC N 2
 Sherman, Willard Barton TC C 6
 Sherrill, Glenn David TC N 4
 Shockey, Paul Kenneth TC N 2
 Shoemaker, Franklin Reynolds TC N 2
 Shomaker, Frank Ashley EC N 6
 Shoup, Jack R. TC N 4
 Shuler, Tom Crawford, Jr. EC C 6
 Sides, Alfred Clarence TC N 4
 Sides, Benjamin Franklin, Jr. TC N 3
 Burgettstown, Pa.
 Hamden, Conn.
 Hamden, Conn.
 Passaic, N. J.
 Eufaula, Ala.
 Winston-Salem, N. C.
 Clairton, Pa.
 Bartow, Ga.
 Atlanta, Ga.
 Washington, D. C.
 Augusta, Kan.
 Durham, N. C.
 Mohawk, Tenn.
 Medina, N. Y.
 Arlington, Va.
 Kansas City, Mo.
 Winston-Salem, N. C.
 Endicott, N. Y.
 Greensboro, N. C.
 Elgin, Ill.
 Cranbury, N. J.
 Mt. Clemens, Mich.
 Torrington, Conn.
 Florence, S. C.
 Washington, D. C.
 Bellefontaine, Ohio
 White Plains, N. Y.
 Sioux City, Iowa
 Greensboro, N. C.
 Erie, Pa.
 Baltimore, Md.
 Brooklyn, N. Y.
 Guilford College, N. C.
 Chester, S. C.
 Spencer, N. C.
 Baltimore, Md.
 Denton, Md.
 Windermere, Fla.
 Memphis, Tenn.
 Garden City, N. Y.
 Greenwood, S. C.
 Baltimore, Md.
 Brooklyn, N. Y.
 Newark, N. J.
 Arcadia, Fla.
 Durham, N. C.
 Riverside, R. I.
 Portsmouth, Va.
 Columbia, S. C.
 Chattanooga, Tenn.
 Roanoke, Va.
 Leander, Tex.
 Rutherfordton, N. C.
 Smithsburg, Md.
 Knoxville, Tenn.
 Richmond, Va.
 Lima, Ohio
 New Philadelphia, Ohio
 Cincinnati, Ohio
 Kannapolis, N. C.

- Siegfried, Frank Hammond TC N 3
 Siker, Ephraim S. TC N 5
 Siler, Gail Andrew TC N 3
 Silverbach, Lee Elmer EC C 7
 Simidian, Vahe TC C 3
 Simon, John B. TC N 7
 Simpson, Ralph Glenn, Jr. TC N 2
 Singer, Howard Gilbert TC N 2
 Singer, Joel David TC N 3
 Sinichko, George EC N 4
 Skarstrom, John H. TC C 8
 Skinner, William Wallace EC N 3
 Slider, Jack W. TC N 3
 Small, Herbert Wesley EC N 6
 Smith, Burdette Rex TC N 2
 Smith, George Bryan TC C 1
 Smith, Glen TC N 4
 Smith, Gordon Laidlaw, Jr. TC N 2
 Smith, James Campbell TC N 3
 Smith, James Lewis TC N 3
 Smith, Lee Amon TC C 2
 Smith, Melvin Wilmer TC N 4
 Smith, Raymond Alfred TC N 7
 Smith, Robert Samuel TC N 6
 Smith, Rollie B. TC N 4
 Smith, Whitefoord, Jr. TC C 7
 Smolen, Harry Anthony EC N 4
 Smurthwaite, Paul Malcolm, Jr. EC N 7
 Snedden, Richard Dean TC N 4
 Snelling, Richard Jackson, Jr. TC N 3
 Snively, Thomas Vinton, Jr. TC C 1
 Snow, Robert Edward TC C 3
 Soma, Milton Eugene TC N 4
 Somers, Robert James TC C 2
 Somerville, John Henry TC N 7
 Spann, Willis Lee TC N 5
 Spargur, Lloyd Eugene TC N 4
 Spears, Marion Lee TC C 2
 Spears, Marshall Turner, Jr. TC N 2
 Spencer, Robert Frank TC C 2
 Spilman, Thomas William TC N 3
 Squires, Charles Stanley TC N 4
 Stalhammer, Robert Carl TC N 5
 Stall, Kenneth Hunter TC N 2
 Stamm, James Charles TC N 3
 Standish, Livingston Miles TC N 4
 Stanfield, Henry Lawrence TC N 4
 Starbuck, Donald Webster TC N 4
 Starkey, Wayne Hampton TC N 3
 Steele, Albert Johnston EC N 7
 Steele, John William TC N 4
 Stefanski, Stanley Stephen EC N 4
 Stegman, Kenneth Francis TC N 5
 Steinert, Lilbourn Neith TC N 4
 Stephanz, Paul William TC C 2
 Stephens, Samuel Statham TC N 2
 Stephens, Winston Bryant, Jr. TC N 3
 Stephenson, Harold Patty EC C 3
 Stevenson, Edward Ward TC N 5
 Stirling, Dean Arthur TC N 3
 Melrose Park, Pa.
 Port Chester, N. Y.
 Wyandotte, Mich.
 Peterson, N. J.
 Forest Hills, N. Y.
 Newark, N. J.
 Winston-Salem, N. C.
 Larchmont, N. Y.
 Brooklyn, N. Y.
 Raritan, N. J.
 Brooklyn, N. Y.
 West Hartford, Conn.
 Paden City, W. Va.
 Charlotte, N. C.
 Casper, Wyo.
 Greenville, S. C.
 Folsam, W. Va.
 Chattanooga, Tenn.
 Washington, D. C.
 Philadelphia, Pa.
 Norfolk, Va.
 Edgewater, Md.
 Mt. Airy, N. C.
 Merchantville, N. J.
 Lakeland, Fla.
 Charlotte, N. C.
 Whiting, Ind.
 Coatesville, Pa.
 Granger, Iowa
 Dublin, Ga.
 Winter Haven, Fla.
 Amesbury, Mass.
 Ames, Iowa
 Louisville, Ky.
 Cumberland, Md.
 Temple, Okla.
 Shenandoah, Iowa.
 Lexington, N. C.
 Durham, N. C.
 Spencer, N. C.
 Richmond, Va.
 Baltimore, Md.
 Bridgeport, Conn.
 Detroit, Mich.
 Grosse Pointe Park, Mich.
 St. Petersburg, Fla.
 St. Petersburg, Fla.
 Jacksonville, Fla.
 Hampton, Va.
 Pittsburgh, Pa.
 Maysville, Ohio
 Tyre, Pa.
 Chicago, Ill.
 Wichita, Kan.
 Milwaukee, Wis.
 Gladys, Va.
 Bethesda, Md.
 Reidsville, N. C.
 Craigsville, Va.
 Washington, D. C.

Stockslager, Edwin Stevens, Jr. EC N 6	Westfield, N. J.
Stockstrom, Louis, III TC C 5	Clayton, Mo.
Stogsdill, Willis Wordsworth TC N 5	Bloomington, Ind.
Stone, Albert Leppo TC C 2	Lincolnton, N. C.
Stone, Robert Lee, Jr. EC N 7	Durham, N. C.
Stophel, John Carroll TC N 2	Bristol, Tenn.
Stover, William Page EC C 9	Charlotte, N. C.
Strahan, John Franklin TC N 5	Catonsville, Md.
Straith, William Mott TC C 2	Detroit, Mich.
Street, Walter Newbill, Jr. TC N 7	Richmond, Va.
Strickman, Arthur Edwin TC N 7	Laurence, N. Y.
Strzyzewski, Edward James, Jr. TC N 4	Grand Rapids, Mich.
Suddard, Neal Arnold TC C 2	Newark, Del.
Sullivan, Percy Guin TC C 1	Bessemer, Ala.
Summer, Lloyd Langston, Jr. TC N 5	Cherryville, N. C.
Sunderland, Glenn Wilce TC N 4	Newton, Ill.
Sunderland, Ralph Kenneth TC N 5	Dearborn, Mo.
Sutton, Harry Wagner TC N 2	Baltimore, Md.
Sutton, Howard Mitchell TC N 2	Roanoke, Va.
Sutton, John Marshall TC C 5	Russell, Ky.
Svenson, James TC N 2	Detroit, Mich.
Swanson, Arnold Arthor TC C 8	Wilmar, Calif.
Swaringen, Charles Tillet, Jr. EC N 7	Greensboro, N. C.
Sweitzer, John H. TC C Special	La Grange, Ill.
Swicegood, Roger Mason TC N 3	Summerville, S. C.
Switzer, Elwood Evritt TC N 2	Defiance, Ohio
Sydemann, William Jay TC C 1	New York, N. Y.
Sydnor, Charles Sackett, Jr. TC C 3	Durham, N. C.
Sylvester, Michael TC C 2	Paulsboro, N. J.
Tallant, Daniel Hoge TC N 4	Bradenton, Fla.
Taylor, Carson Elroy TC N 4	Nashville, Tenn.
Taylor, Charles Lewis TC N 3	Charleston, W. Va.
Taylor, David Kerr TC C 2	Oxford, N. C.
Taylor, Geoffrey James TC N 3	Manheim, Pa.
Templeman, Gordon Frank TC N 4	Evanston, Ill.
Templeton, James Huie TC N 3	Union Grove, N. C.
Thomas, George S., Jr. TC C 2	Stanfield, N. C.
Thomas, Paul Bert TC N 3	Bellmore, N. Y.
Thomas, Robert Lee TC N 3	Point Pleasant, W. Va.
Thomas, Robert Leo TC N 2	Evansville, Ind.
Thomas, Roy Wesley TC N 3	Carlsbad, N. M.
Thompson, Donald Reece TC N 4	Kingsport, Tenn.
Thompson, Douglas Brett TC N 2	Greenwich, Conn.
Thompson, Elwood Reynolds TC N 3	Wilmington, Del.
Thompson, Harold Britt TC C 1	Hallsboro, N. C.
Thompson, Julian Edward TC N 5	Cowden, Ill.
Thompson, James Gilliam EC N 6	Greensboro, N. C.
Thompson, Joseph Walter TC N 3	Kermitt, W. Va.
Thompson, Leonard Howard TC N 2	Trenton, N. J.
Thompson, Ronald MacKinnon TC C 5	Durham, N. C.
Thompson, William Wallace TC N 3	Charleston, S. C.
Thornton, Foxhall Parker TC C 2	Alexandria, Va.
Thornton, John Lemuel TC N 5	Warrenton, Va.
Thrower, Troy Hyman TC C 3	Ridgeville, S. C.
Thrower, Wendell Burton TC C 5	Ridgeville, S. C.
Tichenor, Charles Beckham TC N 5	Indianapolis, Ind.
Tideman, Otto Darby TC N 4	Muncie, Kan.
Tidler, Harold S. TC N 5	Arlington, Va.
Tillinghast, Arthur TC C 1	New York, N. Y.
Tillinghast, Clifton TC C 1	New York, N. Y.

- Titman, Theodore David TC N 4
 Titus, Philip Ellsworth TC N 4
 Todd, Robert Emmett TC N 3
 Tolson, Walter James TC N 2
 Tomlinson, Carroll Finley EC N 4
 Tompkins, James K. TC C 8
 Tompkins, Richard Thomas EC N 3
 Torgerson, Torger Edward TC N 4
 Touchstone, Jack Linwood TC C 1
 Tracy, Marvin Grant TC N 4
 Tremé, Ferris TC N 4
 Trout, Thomas Warren TC N 3
 Trumbull, Roy John EC N 4
 Tucker, James Arnold TC N 5
 Tuttle, James Gray TC C 7
 Tyson, Robert Miller TC C 1
 Uhl, Joseph Louis TC N 4
 Underwood, Carl Haden TC N 2
 Urban, James Arthur TC C 2
 Valenti, Gino Salvador TC N 4
 Valledor, Jose Manuel TC C 1
 Valley, Morton Thurlow TC C 1
 Vallotton, Billy Wise TC C 1
 Van Blaricum, Alfred Allen, Jr. TC N 2
 Vandenend, Hilbert TC N 5
 Van Fossen, Richard Waight TC C 1
 Van Leer, Blake Wayne EC N 8
 Van Schoik, Dickson Moore TC N 4
 Vaughan, John Willis TC N 2
 Vaughan, Lynwood Bernard TC C 2
 Veals, Ralph Langdon TC N 2
 Verlander, Joseph Michael TC N 3
 Viehmyer, George Frederick TC N 4
 Villanueva, Charles Edward TC N 5
 Vincent, Kenneth Edwin TC N 4
 Vining, Ralph Edward, Jr. TC N 2
 Virgin, Don Granville TC N 2
 Vitale, Joseph A. TC C 1
 Vogel, John Leslie TC C 3
 Vorhes, Carl Edwin TC N 4
 Waggener, Arthur Dale TC C 1
 Wagner, Arthur Wallace TC N 5
 Wagner, Michael Joseph TC N 4
 Wagner, Robert Baer TC N 2
 Walker, Fred Layman TC C 3
 Walker, Gordon Rexal EC N 6
 Walker, John Garnett TC N 5
 Walker, Johnnie Cusworth TC C 2
 Walker, Paul Creasy TC C 2
 Wall, Junius French TC N 2
 Walters, Robert George TC N 4
 Walters, Wallace Lee TC C 2
 Ward, Charles Theodore TC N 2
 Ward, Frank Fordham TC N 7
 Warinner, Junius Ernest, III TC N 5
 Warner, John Robinson TC C 6
 Warner, Tim Goode TC C 5
 Warren, Julian Marion TC C 2
 Warren, Thomas Byrd EC N 4
 Waterman, Chester Baldwin TC N 4
 Baltimore, Md.
 Wellington, Kan.
 Somerville, N. J.
 Washington, D. C.
 Durham, N. C.
 Johnson City, N. Y.
 Lakewood, Ohio
 Duluth, Minn.
 Tifton, Ga.
 Danville, Ohio
 Elton, La.
 Marietta, Ohio
 Milwaukee, Wis.
 Winterset, Iowa
 Raleigh, N. C.
 Larchmont, N. Y.
 Columbus, Ohio
 Mt. Holly, N. C.
 Miami, Fla.
 University Park, Md.
 Hato Rey, Puerto Rico
 Cohoes, N. Y.
 Valdosta, Ga.
 Canton, Ohio
 Oak Park, Ill.
 Washington, D. C.
 Washington, D. C.
 Columbus, Ohio
 Hampton, Va.
 Sumter, S. C.
 Carneys Point, N. J.
 Richmond, Va.
 Baltimore, Md.
 Orange, N. J.
 Bloomfield, N. J.
 Baltimore, Md.
 Ashland, Ky.
 Verona, N. J.
 Louisville, Ky.
 Marshalltown, Iowa
 Los Angeles, Calif.
 Belleville, Ill.
 Baltimore, Md.
 Baltimore, Md.
 Washington, D. C.
 Spindale, N. C.
 Marion, Va.
 Chevy Chase, Md.
 Winston-Salem, N. C.
 Chattanooga, Tenn.
 Chicago, Ill.
 Rocky Mount, N. C.
 Chattanooga, Tenn.
 Montclair, N. J.
 Richmond, Va.
 Durham, N. C.
 Greensboro, N. C.
 Spring Hope, N. C.
 Chevy Chase, Md.
 Parkersburg, W. Va.

Waters, Joe Frazier TC N 7
 Watkins, John David TC N 2
 Watkins, William Forbes, Jr. EC N 5
 Watson, Frank Yandle TC N 5
 Watson, Henry Brock TC C 2
 Watson, William Wood TC N 7
 Watt, Donald Hubert TC N 4
 Way, Charles Burr TC C 3
 Wayland, Ernest Tedford TC N 1
 Weatherly, Carl Holmes TC C 5
 Weaver, Robert Lee TC N 7
 Wedding, Jesse Conrad TC N 2
 Weil, Kenneth Louis TC C 2
 Weinberg, John David TC N 2
 Weirauch, Roland EC N 4
 Welch, Frederick Parker TC C 1
 Wells, David Allen TC N 7
 Wells, John David TC N 4
 Wells, John Harrison TC N 2
 Wells, John Murrell TC C 2
 Wells, Joseph Fisher TC C 2
 Wells, William Charles, Jr. TC N 5
 Wells, William Eston TC N 4
 West, Edwin Scott TC N 3
 West, George Washington EC N 3
 West, Sidney TC C 2
 Westcott, Dann TC C 1
 Wheeler, Arthur Edwin EC N 3
 Wheeler, John C. TC N 7
 Whitaker, O'Kelley TC C 2
 White, Beaman Twitty TC C 2
 White, Richard Marion EC N 4
 Whitfield, Don Scott TC C 4
 Whitfield, Thomas Japheth, III TC N 2
 Whitley, Joseph McCullough EC N 4
 Whitley, William Beverly TC C 1
 Whitlock, James Dale TC N 4
 Whyte, Donald Leslie TC N 7
 Wicker, Max William TC N 4
 Wickström, Ralph Lee TC N 4
 Wight, Fred Cary TC N 2
 Wilbur, Robert Lynch TC C 4
 Wilder, Jesse Holland EC N 3
 Wilhoite, Gene Milton TC N 4
 Wilkinson, Kenneth Lee EC N 8
 Williams, Bill Rowney TC C 2
 Williams, Daniel McGregor TC C 3
 Williams, Edgar Donald, Jr. EC N 7
 Williams, Harold Lee TC C 1
 Williams, Harvey McDonald TC N 2
 Williams, Jack Newton TC C 3
 Williams, Lloyd Lorenzo, Jr. TC C 2
 Williams, Louis Howard TC C 1
 Williams, Ronald Edward • TC N 3
 Williams, Wade Hampton, Jr. TC N 7
 Williamson, Cecil Floyd TC N 4
 Williamson, Daniel Lester, Jr. TC N 4
 Williamson, Max LaVern TC N 4
 Willis, Joseph William EC N 7
 Willis, William Newton, Jr. TC N 4

Johnstown, Pa.
 Rocky Mount, N. C.
 Farmville, Va.
 Charlotte, N. C.
 Prospectville, Pa.
 Eastham, Mass.
 Akron, Ohio
 Waynesville, N. C.
 Knoxville, Tenn.
 Leaksville, N. C.
 Drexel Hill, Pa.
 Raleigh, N. C.
 New York, N. Y.
 Mt. Vernon, N. Y.
 Liberty Center, Ohio
 Madison, N. Y.
 Hopeville, Ga.
 Elmdale, Kan.
 Greensboro, Fla.
 Hopeville, Ga.
 Cheltenham, Pa.
 Delanco, N. J.
 St. Petersburg, Fla.
 Windom, Tex.
 Philadelphia, Pa.
 Washington, D. C.
 Bellevue, Pa.
 Philadelphia, Pa.
 Ridgewood, N. J.
 Durham, N. C.
 Raleigh, N. C.
 Norfolk, Va.
 Hillsboro, N. C.
 Suffolk, Va.
 Oakmont, Pa.
 Ft. Lauderdale, Fla.
 Dallas, Tex.
 Princeton, N. J.
 Aberdeen, N. C.
 Sioux City, Iowa
 Sanford, Fla.
 Durham, N. C.
 Delight, Ark.
 Chattanooga, Tenn.
 Pocomoke City, Md.
 Charlotte, N. C.
 Durham, N. C.
 Durham, N. C.
 Greenville, N. C.
 Norfolk, Va.
 Charlotte, N. C.
 Jacksonville, Fla.
 Greenville, N. C.
 Akron, Ohio
 Charlotte, N. C.
 Cerro Gordo, N. C.
 Wilmington, N. C.
 Creston, Iowa
 Ft. Lauderdale, Fla.
 Smithville, Tex.

Wills, Rex, II TC N 7	Hilo, Hawaii
Wilson, Alexander C. R. TC N 3	Baltimore, Md.
Wilson, John Winkle, Jr. TC N 4	Chattanooga, Tenn.
Wilson, Joseph Richard Hoyle EC N 6	Atlanta, Ga.
Wilson, Robert Hayes TC N 2	Los Angeles, Calif.
Wingard, David EC C 3	Youngsville, Pa.
Winitzky, Leon EC N 4	Camden, N. J.
Wittenberg, James Atkins TC N 6	Memphis, Tenn.
Wolfe, William Raymond TC N 7	Verona, Pa.
Wolff, George Miles EC C 5	Haynesville, La.
Wolfley, Edward Luckey, Jr. TC N 4	Evansville, Ind.
Womack, William Graham TC C 2	Sanford, N. C.
Woodbridge, E. Byron TC N 7	Tamaqua, Pa.
Woodward, Willys Lee TC N 4	Fulton, N. Y.
Woolley, Philip Monroe TC N 4	Southern Pines, N. C.
Wright, John Nickels TC C 2	Spartanburg, S. C.
Wright, William Albert, Jr. TC C 5	Youngstown, Ohio
Wuchte, Richard Ernest TC N 2	Lebanon, Pa.
Wuertenbaecher, Harry, Jr. TC N 4	Clayton, Mo.
Wyche, Melvern Hill EC N 7	Emporia, Va.
Wyeth, Marion Sims, Jr. TC N 2	Palm Beach, Fla.
Yarborough, George Dewey TC C 1	Timmonsville, S. C.
Yegge, Lawrence Raymond TC N 4	Boone, Iowa
Yochum, Joseph Karl TC N 4	Sinking Spring, Pa.
York, Charles Irving TC N 4	Washington, D. C.
Young, Edward Eugene TC N 2	Lexington, Ky.
Young, Richard Oliver TC N 3	Forest Hill, La.
Yount, Arthur White TC C 5	Statesville, N. C.
Yount, Paul Wesley, Jr. TC N 5	Charlotte, N. C.
Zakrzewski, Thomas Francis TC N 4	Buffalo, N. Y.
Zech, Arthur Orr TC C 1	Miami, Fla.
Zimmerman, Cullen Caswell TC C 1	Durham, N. C.
Zimmerman, Erwin Harold TC C 9	Charlotte, N. C.
Zitomer, Joseph TC N 4	Washington, D. C.
Zitzelberger, James Allen TC N 3	Milwaukee, Wis.
Zukowski, Alfred Stanley TC N 4	Bayonne, N. J.

July 1, 1944-October 24, 1944

TC indicates Trinity College and EC College of Engineering. Letters denote classification: C, Civilian; N, Navy; M, Marine. Number shows semester in progress.

Abney, James Wesley, Jr. TC N 2	Arlington, Va.
Abramson, Richard Arlen TC C 4	New York, N. Y.
Acherman, Walter Lane TC N 4	Washington, D. C.
Acton, Robert William TC N 2	Jackson, Mich.
Adair, Chapman TC C 1	Delbarton, W. Va.
Adams, Ernest Francis TC N 1	Belleville, N. J.
Adams, Gilreath Gideroy, Jr. TC C 7	Charlotte, N. C.
Adams, Hunter DeWees TC N 1	Drexel Hill, Pa.
Adams, Mack Neel TC N 4	Duncan, Okla.
Adams, Thornton Dixon TC C 3	Carthage, N. C.
Adams, William Hester, III TC N 4	Atlantic Beach, Fla.
Adams, William Talmadge TC C 1	Hampton, Va.
Adcock, Lucious Culvern TC C 1	Oxford, N. C.
Addison, William Walter EC N 3	Ft. Lauderdale, Fla.
Adkins, Leon McKinley, Jr. TC N 1	Schenectady, N. Y.
Aiken, Franklin Dunwoody TC N 1	Griffin, Ga.
Albrecht, Glen Tasker TC N 3	Washington, D. C.
Alexander, Henry Clifford, Jr. TC C 4	Charlotte, N. C.
Alexander, William Coburn EC N 6	Durham, N. C.

- Allen, Bonva Closson, Jr. TC N 4
 Allen, Louis Carr, Jr. TC N 6
 Allen, Silas Lee TC C 1
 Allison, Robert David TC N 4
 Allred, William Floyd TC C 1
 Alperin, Alfred Maurice EC N 8
 Alpert, Eugene Oliver TC C 4
 Alt, Thomas Henry TC N 1
 Ambrose, Kenneth Eugene TC N 4
 Amos, Charles Aubrey TC N 2
 Amphthor, Francis Joseph Edward TC N 6
 Anders, Wilson N., Jr. TC M 5
 Anderson, Callis Jensen TC N 1
 Anderson, Charles Duane TC N 2
 Anderson, John Powell TC N 4
 Anderson, Leonard Porter TC N 4
 Anderson, Richard Albin TC N 3
 Anderson, Richard Gordon TC N 2
 Anderson, Walter Herman TC N 1
 Anderson, William Woodrow TC N 2
 Andrachek, George TC N 3
 Andres, Norbert Eugene, Jr. TC N 3
 Andrews, Richard Selby EC N 8
 Angelillo, Ralph Clemens TC C 1
 Anthony, Edwin Leon EC N 6
 Appleby, William Robert TC M 4
 Appleby, Winfred Louis TC N 3
 Applegate, Alfred Jackson TC C 4
 Arford, James Albert TC N 4
 Armstrong, Howard Gene TC N 4
 Arnold, Allen Richard EC N 5
 Arnold, James Schoonover TC C 7
 Arnold, Reginald Seymour EC M 4
 Artley, James Meredith EC M 6
 Ashby, Rufus TC N 6
 Ashmore, Frank Leon TC N 4
 Asplund, Dellmar Clarence TC N 3
 Atkins, Albert Acree, Jr. TC N 2
 Atkins, Kenneth Edward TC N 1
 Atkins, Robert Myrick TC N 5
 Atwood, John Warren TC N 1
 Ausband, David Wesley TC C 1
 Austin, Tollie Edward, Jr. TC C 1
 Aycock, Ezra Kenny TC C 1
 Aycock, Thomas Malcolm, Jr. TC N 4
 Ayerst, Robert Irvin TC C 1
 Badger, James Verner TC N 3
 Baer, Bruce Lawrence TC C 1
 Baer, Harry Robert EC N 6
 Bailey, Alfred E. TC N 5
 Bailey, Edward Anthony TC N 6
 Baker, David Mohn TC N 6
 Baker, Everett Harley TC N 6
 Baker, John Holland EC N 4
 Baker, Sumner Erwin TC N 2
 Balitsaris, George Peter TC M 6
 Ball, James Herbert TC N 5
 Barber, Henry Ford TC N 3
 Barger, Charles Thomas, Jr. TC N 3
 Barnard, John Lockhart TC N 1
 Raleigh, N. C.
 Burlington, N. C.
 Spartanburg, S. C.
 Clinton, Ohio
 Rockingham, N. C.
 Memphis, Tenn.
 Brooklyn, N. Y.
 Washington, D. C.
 Oblong, Ill.
 Washington, D. C.
 Philadelphia, Pa.
 Baton Rouge, La.
 Florence, S. C.
 Lakeland, Fla.
 Lynchburg, Va.
 Camden, S. C.
 Chicago, Ill.
 Miami, Fla.
 Nealsville, N. C.
 Ettrick, Va.
 Monessen, Pa.
 Buffalo, N. Y.
 New Haven, Conn.
 Newark, N. J.
 Binghampton, N. Y.
 Dallas, Tex.
 Coral Ridge, Ky.
 Clifton, N. J.
 Stone Lake, Wis.
 Washington, D. C.
 Baltimore, Md.
 Chicago, Ill.
 Wasonoco, Mass.
 Savannah, Ga.
 Durham, N. C.
 Greenville, S. C.
 Rockford, Ill.
 Concord, Tenn.
 Leaksville, N. C.
 Paragould, Ark.
 Winsted, Conn.
 Winston-Salem, N. C.
 Portsmouth, Va.
 Pinewood, S. C.
 Durham, N. C.
 Connellsville, Pa.
 Portland, Ind.
 Raleigh, N. C.
 Youngstown, Ohio
 Carmichaels, Pa.
 Rydal, Pa.
 Lewisburg, Pa.
 Wheeling, W. Va.
 Crystal City, Tex.
 Tampa, Fla.
 Pittsburgh, Pa.
 Winston-Salem, N. C.
 Middleburgh, N. Y.
 Charlotte, N. C.
 St. Louis, Mo.

- Barnes, Charles Henry TC C 1
 Barnes, David A. TC N 4
 Barnes, George William EC M 4
 Barnes, Jimmy A. TC N 4
 Barnes, Robert Lloyd TC N 1
 Barnett, William Herbert TC N 2
 Barr, Charles Lee TC N 4
 Barra, Peter Philip TC M 4
 Barrett, John Albert TC C 1
 Barringer, Harold Ross TC N 3
 Bartlett, Carroll Williams TC N 3
 Barton, Taylor Jefferson TC M 5
 Batchelor, Edward, Jr. TC C 3
 Bayman, Charles Richard EC N 8
 Beale, Walter H., Jr. EC M 8
 Beam, Jay Ky TC N 3
 Beaman, Nathaniel, III TC N 6
 Beaman, Robert Prentis, Jr. TC N 6
 Beaudouin, Harry Edward TC N 6
 Bebell, Charles Jacob EC N 6
 Beck, Buford L. TC N 3
 Becker, A. William TC C 3
 Becker, Irwin William TC M 4
 Becker, John Wellman TC C 1
 Becker, William Frederick EC N 5
 Beddingfield, Richard Jackson TC N 6
 Bedell, Henry Anthony, Jr. TC C 1
 Bedford, Robert Chester TC N 3
 Bedinger, John F. TC N 6
 Bedinger, Neal Anderson, Jr. TC N 6
 Belk, Henderson TC N 6
 Bell, Bill Everett TC N 3
 Benedetti, Francis Anthony TC N 3
 Bennett, Edgar Bowling EC N 6
 Bennett, Edwin Lyles TC M 6
 Bennett, Reginald Victor TC N 1
 Bennett, William Edward TC N 2
 Benson, Rupert Lee, Jr. TC C 4
 Bergy, Gordon Goodrich TC N 3
 Berkowitz, Ami Emanuel TC N 4
 Betts, Wilmer Conrad TC N 5
 Biggs, Dennis Walter, Jr. TC N 4
 Binda, Herbert J., Jr. TC M 4
 Birkhead, Roland S. EC N 5
 Birmingham, Walter Marvin TC N 2
 Bishopric, George Andrew TC N 4
 Black, David Coley TC C 3
 Blackmon, Benjamin Boinest TC C 2
 Blake, John Ronald TC C 4
 Blake, William Campbell, Jr. TC N 1
 Blanton, Stewart Bennett EC N 5
 Bliss, Francis O'Donovan, Jr. TC N 3
 Bliss, William Robert TC N 1
 Bobb, William Anders TC C 4
 Bock, Paul EC N 3
 Boeckel, John Hart TC N 1
 Boggs, Charles Harmon, Jr. TC N 6
 Boggs, Lawrence Kennedy TC N 5
 Bogley, Claude William TC N 1
 Bolton, Charles Amos TC N 1
 Albany, Ga.
 Rochester, Minn.
 Petersham, Mass.
 Kings Mountain, N. C.
 Royersford, Pa.
 Michie, Tenn.
 Glen Ellyn, Ill.
 Boston, Mass.
 Norfolk, Va.
 Concord, N. C.
 Baltimore, Md.
 San Angelo, Tex.
 Greenville, N. C.
 N. Charleston, S. C.
 Potecasi, N. C.
 Beaufort, N. C.
 Norfolk, Va.
 Norfolk, Va.
 Hewlett, N. Y.
 Toronto, Canada
 Elizabeth, Ill.
 Clayton, Mo.
 Burlington, Vt.
 Cooperstown, N. Y.
 Nutley, N. J.
 Manhasset, N. Y.
 Newark, N. J.
 Chicago, Ill.
 Worsham, Va.
 Worsham, Va.
 Charlotte, N. C.
 Raleigh, N. C.
 Richmond, Va.
 Richmond, Va.
 Memphis, Tenn.
 Louisville, Ky.
 St. Petersburg, Fla.
 Wrightsville Beach, N. C.
 Morgantown, W. Va.
 Philadelphia, Pa.
 Raleigh, N. C.
 Lumberton, N. C.
 Medford, Mass.
 Glen Ferris, W. Va.
 Granite City, Ill.
 Spray, N. C.
 Durham, N. C.
 Orangeburg, S. C.
 Washington, D. C.
 Tampa, Fla.
 Charlotte, N. C.
 Dickerson, Md.
 Dickerson, Md.
 Nyack, N. Y.
 Baltimore, Md.
 Rockville, Md.
 Franklin, W. Va.
 Birmingham, Ala.
 Friendship Heights, Md.
 Metropolis, Ill.

- Bommer, Clifford K. TC N 5
 Bond, Raymond, Jr. TC N 1
 Bonn, Marvin Charles EC N 3
 Bonner, Charles Wilbur TC N 2
 Boone, Thomas Hood TC C 3
 Borgerding, George E. TC M 4
 Bortner, John Gerberick TC C 1
 Bostian, Leroy Edgar TC C 9
 Bowden, George Edwin TC C 5
 Bowdre, John Birch TC N 1
 Bowe, Walter John TC N 1
 Bower, David Malthaner TC C 1
 Bowes, William Thomas TC N 2
 Bowie, Fred Alexander TC C 2
 Bowles, Richard Morgan TC C 1
 Bowman, Robert Calvin TC N 3
 Boyce, Floyd Thomas TC N 1
 Boyd, Benjamin F. TC C 6
 Boyers, Robert Cyrus TC C 1
 Boyette, Thomas Leroy TC C 1
 Boylan, John Davit TC N 4
 Bozich, Anthony Michael TC N 2
 Brace, William Roger TC N 3
 Bracey, Earl Watkins TC N 3
 Bradley, Philip Edgar, Jr. TC N 1
 Bradley, William Macon TC N 2
 Brand, Joseph Margon TC N 1
 Brandon, Guilbert LePage EC C 8
 Brandt, Chester TC C 2
 Branscomb, Lewis McAdory TC N 5
 Brashear, Thomas Edward TC N 3
 Braswell, Charles Clarence EC C 6
 Brawner, Hugh Page TC C 4
 Brennan, William Henry, Jr. TC N 1
 Brennan, William Knodel TC N 1
 Bridgforth, Edwin Burwell TC N 7
 Briggs, Harold Bruce TC N 2
 Bright, Turner Newton EC N 7
 Brinkley, William Lambreth, Jr. TC C 7
 Britt, Clyde Lee TC C 1
 Broadfield, Ward Holt, Jr. EC N 6
 Bronson, Richard Avann TC C 3
 Brooks, Douglas Cozart EC N 3
 Brooks, John Granville EC N 6
 Brooks, Keith TC N 4
 Brooks, Richard Iddings, Jr. TC N 3
 Browder, Joseph Garrott EC N 6
 Brown, Allan Edward TC N 1
 Brown, Allan M. TC N 6
 Brown, Bachman Storch, Jr. TC N 2
 Brown, Clarence J., Jr. TC N 1
 Brown, Walter Lyons TC N 6
 Browne, George Field TC N 2
 Browning, James R. TC C 4
 Brungardt, Harold TC N 4
 Brunner, George Joseph TC N 1
 Bryan, William Joe TC N 4
 Bryans, Robert Lee TC C 4
 Bryant, Clyde Vernon TC C 1
 Bryant, William Arnold TC N 4
 Mt. Meade, Fla.
 Youngstown, Ohio
 Freeport, Ill.
 Richmond, Va.
 Washington, D. C.
 Prior Lake, Minn.
 York, Pa.
 China Grove, N. C.
 Norfolk, Va.
 Macon, Ga.
 Syracuse, N. Y.
 Lenoir, N. C.
 Alexandria, Va.
 Morganton, N. C.
 Garden City, N. Y.
 Park Ridge, Ill.
 Jackson, N. C.
 Panama City, Panama
 Morgantown, W. Va.
 Winston-Salem, N. C.
 Chicago, Ill.
 Chicago, Ill.
 Spencerville, Ind.
 La Crosse, Va.
 Purcellville, Va.
 Atlanta, Ga.
 Louisville, Ky.
 Memphis, Tenn.
 Brooklyn, N. Y.
 Durham, N. C.
 Cameron, Tex.
 Durham, N. C.
 Washington, D. C.
 Stamford, Conn.
 Louisville, Ky.
 Pickens, Mass.
 Caden City, W. Va.
 Bardstown, N. Y.
 Greensboro, N. C.
 Lumberton, N. C.
 Cartersville, Ga.
 Coral Gables, Fla.
 Greensboro, N. C.
 Richmond, Va.
 New Castle, Pa.
 Peterboro, N. H.
 Charlotte, N. C.
 Irvington, N. J.
 Chicago, Ill.
 Lincolnton, N. C.
 Washington, D. C.
 Charlottesville, Va.
 Newport News, Va.
 Whiteville, N. C.
 Lincoln, Neb.
 W. New York, N. J.
 Rockford, Ill.
 Pensacola, Fla.
 Raleigh, N. C.
 Allen, Okla.

- Bryant, William Patrick, Jr. TC N 1
 Bucceroni, Joseph Louis TC N 1
 Buchanan, Charles Edward TC N 1
 Buchanan, Fitzhugh Lee, Jr. TC M 4
 Buchanan, William Edward TC C 1
 Buck, Donald Arthur TC N 2
 Buckheit, Theodore O. TC N 3
 Buckley, Daniel Joseph TC N 2
 Buckley, Donald Bright TC N 6
 Budd, James Archibald TC N 5
 Buehn, Jack Louis TC N 1
 Buelich, Nickola TC N 1
 Bugg, Charles Paulett TC C 1
 Bulkeley, William Alfred TC N 1
 Bullard, John Carson TC N 1
 Burcham, Robert Poplin TC N 2
 Burg, James Donald TC N 3
 Burke, Edward Walter, Jr. EC M 4
 Burke, Thomas H. TC N 4
 Burns, William Huston TC N 1
 Burris, Richard Ross TC N 3
 Burris, Robert Eugene TC N 1
 Burton, John R. EC M 6
 Busby, David Franklin TC N 3
 Byers, Irving Miller TC N 5
 Cacak, Stanley John TC N 4
 Cade, Joseph Wade TC N 7
 Caffey, John William, Jr. TC C 1
 Cahn, Maurice Simon TC N 2
 Cairns, Frank Elmer, Jr. TC N 3
 Callaway, Rex Leon TC M 4
 Cameron, Angus McKay TC C 4
 Cammack, Allen Berriman TC N 3
 Camp, Frank Lee TC N 4
 Campanale, Leonard Victor TC N 3
 Campbell, Craig Carol TC C 1
 Campbell, Lachlan Leigh TC C 2
 Cannon, Michael Leo TC N 3
 Capie, James George TC N 2
 Capps, John A. EC M 7
 Carguil, R. Donald TC N 4
 Carmichael, Clifford EC N 6
 Carosi, Nicholas John, Jr. TC N 6
 Carpenter, Robert Murray EC N 6
 Carpenter, Robert Eddy TC N 3
 Carrera, Carl Henry TC C 1
 Carroll, Michael Philip TC M 3
 Carroll, Thomas Richard TC N 3
 Carson, John Spencer TC M 6
 Carson, Raymond Reese TC N 1
 Carter, Donald Dean TC N 5
 Carter, Edward Fennel TC N 4
 Carter, Hal Dunson TC N 1
 Carter, Shirley Hall, Jr. TC N 2
 Caviness, Joseph Edward, Jr. TC C 1
 Cecil, Bradford Hayden TC N 1
 Chaffee, Raymond Burton TC N 1
 Chancellor, Hoyle Zellner TC N 2
 Chaney, Harold David TC N 1
 Chappell, Thomas Tye TC N 1
 Springfield, Tenn.
 Richmond, Va.
 Hamlet, N. C.
 Portsmouth, Va.
 Charleston, W. Va.
 Cincinnati, Ohio
 Ozone Park, N. Y.
 New York, N. Y.
 Washington, D. C.
 Greenwood, Fla.
 Norwalk, Calif.
 Weirton, W. Va.
 Raleigh, N. C.
 Sewickley, Pa.
 DeFuniak Springs, Fla.
 Washington, D. C.
 Hamilton, Ohio
 Lynn, Mass.
 Rusk, Tex.
 Fort Spring, W. Va.
 Gas City, Ind.
 Newton, Ill.
 Richmond, Va.
 Memphis, Tenn.
 Martinsburg, W. Va.
 Thompson, Neb.
 Sheffield, Ala.
 Greensboro, N. C.
 Blackstone, Va.
 Mazomanie, Wis.
 Crichton, Ala.
 Vass, N. C.
 Burlington, N. C.
 Memphis, Tenn.
 Mishawaka, Ind.
 Durham, N. C.
 Charleston, W. Va.
 Gladstone, Mich.
 Deer Park, N. Y.
 Jackson, Miss.
 Brooklyn, N. Y.
 Clifton, N. Y.
 Washington, D. C.
 Hagerstown, Md.
 West Point, Ga.
 Tampa, Fla.
 Augusta, Ga.
 Middletown, Ohio
 Richmond, Va.
 Little Falls, N. J.
 Erwin, Tenn.
 Erie, Pa.
 Coral Gables, Fla.
 Ellsworth, Me.
 Lillington, N. C.
 Catonsville, Md.
 Syracuse, N. Y.
 Johnson City, Tenn.
 Flintstone, Md.
 Plainfield, N. J.

Chase, Paul Engelhart TC N 5
 Chasen, Sylvan Herbert EC N 4
 Cheers, William Crockett, Jr. TC N 1
 Chipley, Roy Marshall, Jr. TC N 1
 Christenson, Roger Marshall TC N 1
 Ciucci, Joseph Vincent TC N 3
 Clark, Alan Dale TC M 6
 Clark, Allen B. TC M 6
 Clark, Don Morse TC N 3
 Clark, George Philemon TC N 5
 Clark, Hubert Karl EC N 6
 Clark, Sam Lillard TC N 3
 Clark, Walter S. TC C 2
 Clarke, George G. TC M 6
 Clarke, Len Gordon TC N 6
 Classen, Robert Edward TC N 2
 Clear, James Robert EC M 4
 Clement, Lee TC N 2
 Clements, Lawrence Withers, Jr. TC M 4
 Cocke, John EC N 5
 Coe, Lowry Nadal, Jr. TC N 1
 Cofone, Michael Anthony TC N 1
 Colby, John Arthur TC N 4
 Cole, Leo Lincecum TC N 1
 Cole, Raymond Eugene TC N 1
 Cole, Richard Shipley TC N 6
 Coleman, Joe M. TC N 4
 Coles, Jewell Rudolph TC N 1
 Collins, Haydn Brian TC N 1
 Collins, Warren James TC C 6
 Condon, Vernon William TC N 2
 Conner, Judson Jerome TC M 4
 Connolly, William Dwight TC N 3
 Conrad, Edward Strickland TC N 1
 Conrow, Abraham Engle TC N 5
 Cook, Edwin Neal TC C 1
 Cook, Harold Jacob, Jr. TC N 7
 Cook, John William TC M 5
 Cook, Robert Edward TC N 5
 Coon, Elvin Ralph, Jr. EC M 4
 Cooper, George James EC N 8
 Cope, Billy Sherrill EC N 5
 Copeland, Leon Howard TC M 4
 Copley, Alden Gibson EC N 6
 Coppin, Charles Clifford, III TC N 1
 Corrado, Victor Menna TC N 3
 Coulter, Fred Winferd TC N 5
 Courtney, Alexander John TC M 2
 Cowie, Charles Sinclair TC N 1
 Cox, Harry Bovard TC N 4
 Cox, Jack Monday TC C 1
 Cox, Thomas Lee TC N 4
 Cox, Walter Edward TC N 2
 Craft, Clifford Justin EC M 4
 Credle, Edward Cecil EC N 3
 Crews, Alton Cornelius TC N 4
 Criser, Edward Eubank TC N 2
 Crivello, Alfred Anthony TC N 3
 Croft, John Lyle TC C 1
 Crosland, Robert Elder TC N 2
 Pasadena, Calif.
 Richmond, Va.
 Charlotte, N. C.
 Raleigh, N. C.
 Oshkosh, Wis.
 Richmond, Va.
 Millville, N. J.
 South Boston, Va.
 Hellam, Pa.
 Wilson, N. C.
 Durham, N. C.
 Nashville, Tenn.
 Miami, Fla.
 Memphis, Tenn.
 Draper, N. C.
 St. Paul, Minn.
 Medford, Mass.
 East Spencer, N. C.
 Roanoke Rapids, N. C.
 Charlotte, N. C.
 Chevy Chase, Md.
 Belleville, N. J.
 Springfield, Mass.
 Chattanooga, Tenn.
 Northport, N. Y.
 Norfolk, Va.
 Madill, Okla.
 Allensville, Ky.
 Bronx, N. Y.
 Camas, Wash.
 Charleston, S. C.
 Hartford, Conn.
 Racine, Wis.
 Alexandria, Va.
 Rancocas, N. Y.
 Durham, N. C.
 Floral Park, N. Y.
 Afton, Va.
 Chicago, Ill.
 Belmont, N. Y.
 Munster, Ind.
 Sylva, N. C.
 El Dorado, Kan.
 New Rochelle, N. Y.
 Lexington, Ky.
 Ozone Park, N. Y.
 Orlando, Fla.
 Montgomery, Ala.
 Alexandria, Va.
 St. Petersburg, Fla.
 Mount Airy, N. C.
 Oklahoma City, Okla.
 Aliceville, Ala.
 Drexel Hill, Pa.
 Durham, N. C.
 Centerville, Ala.
 Hot Springs, Va.
 Baltimore, Md.
 Jonesboro, Ark.
 Punta Gorda, Fla.

- Cross, Ray Y. TC C 1
 Crowder, John Nathaniel TC N 4
 Crowder, LeRoy Ernest TC C 1
 Crutcher, James Carroll TC N 3
 Cudworth, James Rowland TC N 3
 Cullis, James Woodworth TC N 1
 Cummings, Jonathan Walkley TC M 4
 Cummins, Robert Leon TC N 4
 Currey, Russell Wallace TC M 4
 Currier, Richard Dustin TC N 6
 Curtis, Charles Marshall EC N 8
 Curtis, Wesley Ballard EC N 3
 Czerwinski, Stephen Ramsay TC N 1
 Dabney, Andrew B. TC N 4
 Dachowski, John Walter TC N 2
 Daniel, Dorsey Wharton EC N 5
 Daniels, Barney Bass TC C 1
 Davidson, George Robert TC N 1
 Davidson, Theron Wesley TC N 3
 Davies, Kenneth William TC N 3
 Davis, Albert Paul TC N 1
 Davis, Wayne Edward TC N 4
 Davis, William Archie EC N 6
 Davison, Alexander Thayer TC C 1
 Davison, Robert Henry TC N 4
 Deas, Eugene Inman TC N 6
 Deaton, Donald Burette TC N 4
 Deegan, Joseph Francis TC N 3
 DeHoff, Harold Lee TC N 1
 Dekker, Olney TC N 2
 De la Guardia, Jaime TC C 4
 Demaria, William J. A. TC C Special
 DeMott, Robert Bert TC N 2
 Dennerline, Fred William TC N 1
 Denny, James A. TC M 4
 Denton, Robert Todd TC N 1
 Desrosiers, Norman Alfred TC N 1
 DeVore, Leonard Horton TC N 6
 Dhonau, Curtis Alan TC N 3
 Dibble, James Birney TC N 4
 Dibble, Philip Gage TC N 6
 Dickson, Benjamin Hedgepeth TC C 5
 Diedrich, William Arnold TC N 3
 DiGiovanni, Ralph TC C 1
 Dillon, Grover Lee EC C 9
 Dillon, Marcus L. TC C 7
 Dinkler, Leonard Ronald TC N 3
 Ditmansen, Samuel Robert TC N 3
 Ditmars, Charles Orestes TC M 2
 Dixon, John M. EC N 6
 Dlugos, Thomas Stephen TC M 3
 Dmytryk, John Robert EC M 4
 Dobbs, Roy M., Jr. EC N 4
 Dodson, Nathan Taylor TC M 4
 Dolson, Thomas Lee TC N 6
 Donahue, George Francis TC N 1
 Donze, Charles A., Jr. TC N 5
 Doran, Francis Aloysius TC N 1
 Dorsey, John Patrick TC N 1
 Albany, Ga.
 High Point, N. C.
 Richmond, Va.
 Dover, N. J.
 Tuscaloosa, Ala.
 St. Petersburg, Fla.
 Bennington, Vt.
 Enid, Okla.
 Chelsea, Mass.
 Rye Beach, N. H.
 Climax, N. C.
 Yonkers, N. Y.
 New Haven, Conn.
 Lancaster, S. C.
 Reading, Pa.
 Oxford, N. C.
 Fort Myers, Fla.
 Baltimore, Md.
 Voorheesville, N. Y.
 Lima, Ohio
 Washington, D. C.
 High Point, N. C.
 Charlotte, N. C.
 Durham, N. C.
 Lynbrook, N. Y.
 Richmond, Va.
 Mooresville, N. C.
 Philadelphia, Pa.
 Baltimore, Md.
 Bedford, Ohio
 Panama City, Panama
 Westport, Conn.
 Eastchester, N. Y.
 Indianapolis, Ind.
 Atlanta, Ga.
 Washington Court House,
 Ohio
 Fall River, Mass.
 Cincinnati, Ohio
 Cannelton, Ind.
 Aurora, Ill.
 Birmingham, Mich.
 Raleigh, N. C.
 Hamlin, N. Y.
 Albany, N. Y.
 Raleigh, N. C.
 Lewisburg, W. Va.
 Mabscott, W. Va.
 Hubbard, Ohio
 Mobile, Ala.
 Waterbury, Conn.
 Garfield Heights, Ohio
 Westfield, Mass.
 Atlanta, Ga.
 Reidsville, N. C.
 New Castle, Pa.
 Brooklyn, N. Y.
 Philadelphia, Pa.
 Avoca, Pa.
 Columbus, Ohio

Dorsey, John Phillip TC N 3
 Dorton, Spero Pete TC C 4
 Doty, Fred Owen TC N 8
 Douglas, Richard Sands TC C 1
 Downes, Charles Slingsluff TC N 3
 Downes, William Robert TC N 4
 Doyle, Richard Lee TC C 6
 Drabent, Eugene Alphonse TC N 3
 Drake, David Ewing TC N 1
 Draney, John Joseph TC N 4
 Drew, Mitchell Nebraska TC N 2
 Drewry, William Shepherd, Jr. TC C 1
 Drummond, Douglas Jay TC N 4
 Dunaiki, Raymond Martin EC N 3
 Dunne, James Thomas TC N 7
 Durand, Frank, Jr. TC N 3
 Durbin, Stephen Frank TC N 4
 Durham, Leonard TC N 4
 Dyches, Randall Altmon TC C 1
 Dye, Dewey Albert, Jr. TC N 4
 Easley, Henry Alexander TC N 2
 Eastman, James Weston TC N 1
 Eastman, Paul Reed TC N 6
 Eaton, William Mellon TC N 4
 Echerd, John Charles TC N 4
 Edens, Wiley Reynolds TC N 1
 Edwards, Arthur Anderson TC N 1
 Edwards, John Springstead TC N 2
 Edwards, John Wiley TC N 1
 Edwards, Ralph Pearson TC N 5
 Edwards, Zeno Lester TC C 1
 Eisaman, Jack Verner TC N 1
 Eisenberg, Lloyd TC C 2
 Eisenmayer, John Curt EC N 3
 Elam, William Nile TC N 5
 Elder, Albert Leon, Jr. TC N 1
 Elder, John Calvin TC C 1
 Eldredge, Robert Breene TC M 4
 Elger, Allan Julius TC M 4
 Elkins, Augustus Coolidge EC N 6
 Elliott, John, Jr. TC C 1
 Ellis, Harold John, Jr. TC C 2
 Ellis, James Thaddeus, Jr. TC M 4
 Ellis, John Granberry, Jr. TC N 1
 Ellison, Frank M. EC N 4
 Ellison, Haskell Saul TC C 5
 Elmendorf, Richard Arthur TC N 1
 Engle, James Wallace, Jr. TC N 4
 Entrekin, Edward Earl TC N 2
 Epstein, Gordon Van TC N 1
 Ervin, Charles Conger TC N 4
 Erwin, Eugene Kent TC M 4
 Eskew, William Theo. Jr. EC N 8
 Esling, Paul Joseph, Jr. TC N 1
 Eubanks, Otha Albert, Jr. TC N 4
 Evans, Hugh Stackhouse, Jr. EC N 8
 Fairman, Francis Evarts TC N 8
 Fairy, William Arthur, II TC C 7
 Farmer, Richard Carlton TC C 1
 Farrell, Jack Edward TC M 6

Minneapolis, Minn.
 Durham, N. C.
 Old Hickory, Tenn.
 Westfield, N. J.
 Baltimore, Md.
 Chicago, Ill.
 Buffalo, N. Y.
 Scranton, Pa.
 Knoxville, Tenn.
 Teaneck, N. J.
 Quincy, Fla.
 Drexel Hill, Pa.
 Richmond, Va.
 Duluth, Minn.
 Chicago, Ill.
 Sea Girt, N. J.
 Altoona, Pa.
 Glen Carbon, Ill.
 Wilmington, N. C.
 Bradenton, Fla.
 Rocky Mount, N. C.
 Plymouth, N. H.
 Bronxville, N. Y.
 New York, N. Y.
 Taylorsville, N. C.
 Lumberton, N. C.
 Brooklyn, N. Y.
 Savannah, Ga.
 Whitesburg, Ky.
 Charlotte, N. C.
 Washington, N. C.
 Slickville, Pa.
 Philadelphia, Pa.
 Trenton, Ill.
 Washington, D. C.
 Bel Alton, Md.
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 Waterbury, Conn.
 Waukesha, Wis.
 Durham, N. C.
 Silver Spring, Md.
 Andover, Mass.
 Siler City, N. C.
 Richmond, Va.
 Madison, W. Va.
 Charleston, S. C.
 Washington, D. C.
 Arlington, Va.
 Glendale, Calif.
 Union, N. J.
 Lenoir, N. C.
 Grand Junction, Col.
 Durham, N. C.
 Wildwood, N. J.
 Upper Darby, Pa.
 Nashville, Tenn.
 Upper Darby, Pa.
 Burlington, N. C.
 New Bern, N. C.
 Jacksonville, Fla.

- Farren, William Joseph TC N 3
 Faulkner, Doc George, Jr. TC N 1
 Fauser, Walter Bernard, Jr. TC N 3
 Feiring, Bruce Clifford TC N 1
 Felton, Eric Rogers TC N 5
 Fenno, John Starkweather TC N 1
 Fenstermacher, Robert James TC N 5
 Ferdinand, Thomas Francis TC N 1
 Ferris, Fred Irving Eldridge TC C 2
 Fess, Harold Arthur Ronald TC N 3
 Fidler, Joseph Cox TC N 3
 Field, John Dane, Jr. TC N 3
 Fike, Robert Guy EC M 5
 Finch, James Clark TC N 2
 Fink, Chester Walter TC C 1
 Fisher, John Eastham TC N 1
 Fisher, John Miller, Jr. TC N 1
 Fisher, Michael TC N 2
 Fisher, Robert Ross TC C 7
 Fitzpatrick, Julius Way EC N 3
 Flake, Winston Hulsey TC N 3
 Fleisher, Martin EC N 5
 Flowe, Benjamin Hugh TC N 4
 Flowers, Alec Parker TC C 6
 Flynn, William Michael TC N 2
 Fonger, William Hamilton TC N 4
 Forbes, Kenneth Keith TC N 4
 Foshee, Charles Newell TC C 2
 Fox, George Henry, Jr. EC N 6
 Foxtton, Frederick Leon TC N 1
 Foy, Thomas Franklin TC N 1
 France, Roy Holroyd EC N 4
 Frate, Domenico Carlo TC N 3
 Frazier, Roy Allan TC N 1
 Frazier, Todd Mearl TC N 4
 Frederick, Bert John, Jr. TC N 2
 Freeark, Ray Henry, Jr. TC N 3
 Freedman, William EC C 6
 Freeman, Jack EC M 7
 Freeze, William Robert EC N 7
 Friauf, Robert James TC N 1
 Friend, Fred Erwin TC N 1
 Fries, Norman Warren TC N 4
 Frisch, Joseph EC C 3
 Fritts, George Printice, Jr. TC N 1
 Frizzelle, John Lloyd, Jr. TC C 4
 Fry, Louis Claude TC M 4
 Fuller, Ellis Adams, Jr. TC C 4
 Furst, William Dunton TC N 3
 Gage, Lucius Gaston, Jr. TC C 5
 Gaillard, Stephen Lee TC N 6
 Gale, Gaylord Glynn TC N 2
 Gard, Richard TC N 3
 Gardiner, Charles Augustus TC N 3
 Gardner, Martin Columbus TC N 1
 Gardner, Robert Randolph TC N 1
 Gardner, William Henry, Jr. EC N 6
 Garrett, John Edward EC M 4
 Garrett, Norman H., Jr. TC C 4
 Garside, Joseph, Jr. TC N 1
 New York, N. Y.
 Nashville, Tenn.
 Rochester, Minn.
 Plainfield, N. J.
 Wilson, N. C.
 Alexandria, Va.
 Murfreesboro, Tenn.
 Newark, N. J.
 Scarsdale, N. Y.
 Dayton, Ohio
 Wilmington, N. C.
 Lincoln, Ill.
 Falls Church, Va.
 Shaker Heights, Ohio
 Durham, N. C.
 Nashville, Tenn.
 Roanoke Rapids, N. C.
 Gary, Ind.
 Youngstown, Ohio
 Cape May Court House, N. J.
 Memphis, Tenn.
 Brooklyn, N. Y.
 Concord, N. C.
 Wilson, N. C.
 Virginia Beach, Va.
 Chicago, Ill.
 Armington, Ill.
 Rocky Mount, N. C.
 Oaklyn, N. J.
 Silver Creek, N. Y.
 Richmond, Va.
 Spartanburg, S. C.
 Baltimore, Md.
 New Orleans, La.
 Onarga, Ill.
 Lansing, Mich.
 Chicago, Ill.
 Durham, N. C.
 Washington, D. C.
 Charlotte, N. C.
 Arlington, Va.
 Lawrenceburg, Tenn.
 Savannah, Ga.
 Durham, N. C.
 Marathon, N. Y.
 Durham, N. C.
 Burnet, Tex.
 Louisville, Ky.
 Baltimore, Md.
 Charlotte, N. C.
 Bronxville, N. Y.
 St. Petersburg, Fla.
 Hamilton, Ohio
 Yonkers, N. Y.
 Reed, W. Va.
 Columbia, Tenn.
 Edenton, N. C.
 Asheville, N. C.
 Mt. Kusco, N. Y.
 Fairmont, W. Va.

Garthe, Henry Carl TC N 1
 Garvin, Richard O. TC M 3
 Gaskins, William Floyd TC N 1
 Gast, George William TC N 1
 Gaudette, Paul Robert EC M 6
 Gee, William Allan TC M 4
 Geer, John Barnes TC N 1
 Gentry, William Harold TC C Special
 Gerke, John Royal TC N 2
 Gerstein, Joe Willie TC C 1
 Gibbon, Anthony Thomas TC N 2
 Giese, Richard W. TC M 6
 Gilbert, Olin Englar, Jr. TC N 1
 Gill, Francis Kilpatrick TC C 2
 Gilligan, Sidney Rogers, Jr. EC M 4
 Gilpin, Roy Edwin, Jr. TC N 3
 Gimbernat, Rogers Wallace TC N 1
 Gintier, John Oliver TC N 4
 Glaser, James Joseph TC N 3
 Glass, Gordon TC C 1
 Glenn, Anderson Tince, Jr. TC C 2
 Glimcher, Melvin Jacob EC M 4
 Glos, Richard Corbin TC C 4
 Goar, Frank Robins, Jr. TC M 4
 Gochnauer, Richard Bleakley TC N 1
 Golden, Richard Francis TC N 4
 Goode, Jimmie L. TC N 2
 Goode, John Richard TC C 1
 Goode, John Ronald, Jr. TC N 1
 Goodell, Horace Grant TC N 4
 Goodman, Howard TC N 3
 Goodman, Richard Nelson TC N 1
 Goodwin, David TC N 3
 Gorbett, Walter Thomas TC N 2
 Gorrell, Joseph Palmer TC C 1
 Gorsuch, Thomas Leonard TC N 1
 Gosch, Lawrence Otto TC N 4
 Graham, Joseph Lawton EC N 6
 Graner, Morris Dickson, Jr. TC N 6
 Gray, Ernest Joel TC N 1
 Gray, Harry Williams TC N 4
 Gray, Robert Lee TC C 1
 Green, M. Edwin, Jr. TC C Special
 Green, Patrick TC N 2
 Green, Paul, Jr. TC C 4
 Green, Thomas William TC M 4
 Greene, Joe Matt TC N 2
 Greenwald, Frank Stafford TC N 6
 Greenwald, Robert Clark, Jr. EC N 5
 Gresham, Rex Maynard TC N 4
 Griese, Harry Frank, Jr. TC N 3
 Griffith, Leon Clifford TC C 4
 Griffin, Eugene Wilson, Jr. TC N 1
 Griffin, William Augustine TC C 4
 Groover, Clyde Loran TC M 1
 Grubb, John Gilbert, Jr. EC N 5
 Grudee, Robert Ferdinand TC N 3
 Grunder, Bey Gates TC N 3
 Guida, Stellario John TC N 2
 Guilfoyle, John Rohan, III TC N 3
 Baltimore, Md.
 Pocatello, Idaho
 New Bern, N. C.
 Portland, Ind.
 Trenton, N. J.
 Niles, Mich.
 Hagerstown, Md.
 Roxboro, N. C.
 Charlotte, N. C.
 Covington, Ga.
 Houston, Tex.
 Brooklyn, N. Y.
 Baltimore, Md.
 Norfolk, Va.
 Warren, Mass.
 Carson, Iowa
 Rahway, N. J.
 Logansport, Ind.
 Norwood, Ohio
 Plainfield, N. J.
 Burlington, N. C.
 Chelsea, Mass.
 Tampa, Fla.
 Nashville, Tenn.
 Baltimore, Md.
 Cumberland, Md.
 Siler City, N. C.
 Statesville, N. C.
 Nashville, Tenn.
 Chicago, Ill.
 New York, N. Y.
 Arlington, Va.
 Memphis, Tenn.
 Fairview Village, Ohio
 Greensboro, N. C.
 Baltimore, Md.
 Bunker Hill, Ind.
 Lake Lure, N. C.
 Pittsburgh, Pa.
 Red Oak, Iowa
 Poolesville, Md.
 Russell, Ky.
 Linglestown, Pa.
 Washington, D. C.
 Thomasville, N. C.
 Cronston, R. I.
 New Tazewell, Tenn.
 Gary, Ind.
 Norfolk, Va.
 Oklahoma City, Okla.
 Cincinnati, Ohio
 Holmes, N. Y.
 Hamlet, N. C.
 Durham, N. C.
 Atlanta, Ga.
 Norfolk, Va.
 Pelham Manor, N. Y.
 Bentley, Mich.
 New York, N. Y.
 Roanoke, Va.

- Gunst, Cyril Curtis, Jr. TC N 6
 Gupton, John William TC N 1
 Gurley, Elbert Luther TC N 1
 Gurley, Joseph Grafton TC N 1
 Gypson, Harold Ellington EC N 8
 Haas, Harry George TC N 1
 Hagan, Joseph Louis TC N 4
 Hagan, Robert R. TC M 4
 Haggerty, William Clifford TC N 9
 Hahn, James Peter TC N 3
 Haines, George Louis, Jr. TC N 6
 Hair, William Bates, Jr. TC N 3
 Hale, L. Gordon TC N 6
 Hall, Harry D. TC N 3
 Hall, Kenneth Daland TC C 1
 Hall, Wayne Thomas TC N 4
 Halliday, William Neil TC N 1
 Hamilton, Charles Mitchell TC N 3
 Hamilton, George Linn TC C 1
 Hammers, James Walter TC N 2
 Hammett, Gordon Charles, Jr. TC N 1
 Hammond, David Palmer TC N 4
 Hampton, George Forrest TC N 1
 Hanbury, Euclid Murden, Jr. TC N 4
 Haney, John Norman TC N 1
 Haninger, Glenn James TC N 4
 Hann, William Gribble TC N 3
 Hanna, Joseph Leving TC N 2
 Hanner, Austin Zach TC M 6
 Harden, Milton Ray, Jr. TC N 1
 Hardison, Frederick Leon EC C 4
 Hardman, Wallace Jackson TC N 1
 Hardy, Robert Oxford TC N 2
 Hargett, Derward Mitchell EC N 5
 Harkness, Richard R. EC N 6
 Harlan, Billy Orner TC N 2
 Harleston, Robert Haig, Jr. TC C 2
 Harper, William Preston TC C 1
 Harrington, Thomas Sidney TC N 1
 Harris, Dela Fletcher TC C 1
 Harris, Marvin Doyle TC C 5
 Harris, Norman Arthur TC N 5
 Harris, Rodney Elton TC C 1
 Harrison, James Graham TC C 8
 Harrison, William David TC N 2
 Harrison, William Robert TC N 2
 Harry, Reece Price TC N 4
 Hart, Richard Henry EC N 6
 Hartley, Robert Charles TC C 1
 Harvey, Robert B. TC N 2
 Hassel, William Frederick TC C 4
 Hassell, T. Fleetwood TC C 1
 Hastings, Richard Owen TC N 2
 Hatcher, Edgar Archibald TC N 3
 Hattaway, James Herbert TC C 6
 Hatton, Herman Patterson TC M 1
 Haughton, James Dobbin TC C 1
 Maun, Warren Scott TC N 1
 Hauser, John Arnold TC N 3
 Havens, Robert Schiller TC N 1
 Greenshaw, Pa.
 Nashville, Tenn.
 Lenoir, N. C.
 Richmond, Va.
 Rome, N. Y.
 Eldred, N. Y.
 Owensboro, Ky.
 Norfolk, Va.
 Lakewood, Ohio
 Chicago, Ill.
 Washington, D. C.
 Gastonia, N. C.
 Scarsdale, N. Y.
 Jamestown, N. Y.
 Dayton, Ohio
 Albemarle, N. C.
 Columbus, Ohio
 Nashville, Tenn.
 Minnora, W. Va.
 St. Louis, Mo.
 San Francisco, Calif.
 Cerro Gordo, N. C.
 Signal Mountain, Tenn.
 Portsmouth, Va.
 Grandview, W. Va.
 Cilero, Ill.
 Brownsville, Pa.
 Bainbridge, Ga.
 Earl, Ark.
 Durham, N. C.
 Williamston, N. C.
 Glenville, W. Va.
 Atlanta, Ga.
 Charlotte, N. C.
 Randolph, N. Y.
 Milton, Pa.
 Charleston, S. C.
 Petersburg, Va.
 Henderson, N. C.
 Sanford, N. C.
 Durham, N. C.
 Ridgecrest, N. C.
 Mount Vernon, Ohio
 Mt. Airy, N. C.
 Brunswick, Ga.
 New Bern, N. C.
 Greensboro, N. C.
 Anniston, Ala.
 Ravenswood, W. Va.
 Miami, Fla.
 Laurinburg, N. C.
 Detroit, Mich.
 Chattanooga, Tenn.
 High Point, N. C.
 Greensboro, N. C.
 Macon, Ga.
 Kingstree, S. C.
 Memphis, Tenn.
 Virginia Beach, Va.
 Jordan, N. Y.

- Hawkins, Josias Henry TC N 4
 Haworth, Homer Franklin TC N 5
 Hayden, Daniel Lee TC C 1
 Hayes, Leonidas Braxton, Jr.
 Hays, Thomas Franklin TC N 3
 Hazlewood, Joseph David TC N 4
 Hegarty, James Harold TC N 3
 Helgason, Hordur TC C 5
 Heltzel, John, Jr. TC N 3
 Hemingway, Clifford Ervin TC C 1
 Henderson, Jesse James, Jr. TC C 4
 Henderson, Lehmann Melvin TC N 4
 Henninghausen, Frederick Herman, Jr.
 EC N 6
 Henry, William Charles TC N 6
 Henry, William Theron TC N 1
 Hensley, James Edward TC N 2
 Herbert, Bueford Gilbert TC M 6
 Herbst, Robert Taylor TC N 4
 Hersman, George Jacob TC N 3
 Hewett, Ertle Bellamy TC N 1
 Higginbotham, William Edward TC N 3
 Hill, Charles Edward TC N 1
 Hill, James Gilland TC C 1
 Hill, Thomas Bayard TC N 6
 Hine, Butler Preston, Jr. TC N 1
 Hinson, Gus DeLacy TC M 6
 Hinson, William Talmadge, Jr. TC C 1
 Hipple, Harris Blair EC N 6
 Hoagland, William Robinson TC N 1
 Hodges, John W., Jr. TC M 2
 Hodson, Thomas Sherwood TC N 1
 Hoehl, John Robert TC N 6
 Hoey, Edmund Friesell TC N 4
 Hofstetter, William Earl TC N 1
 Hogan, William Augustus TC M 7
 Hoge, DeForest TC N 6
 Hoke, George Clayton TC N 2
 Holcombe, Lynn Montanye, Jr. TC C 6
 Holder, Clarence Perry EC N 3
 Holland, Rondal TC N 1
 Hollingsworth, James William TC C 6
 Holmes, Brandon McConnell TC N 2
 Holroyd, William Casper TC C 1
 Holt, Bevley Dan TC N 1
 Holton, Holland Young TC C 5
 Hood, Hichard Thornton TC N 6
 Hook, John A. TC M 4
 Hoover, John Franklin TC N 3
 Hopkins, Waring Carrington TC C 7
 Hornaday, Harold Preston TC N 4
 Hottenstine, Richard Daniel TC C 1
 Hough, Otto B. TC M 4
 Houk, Joseph Thomas TC N 4
 Houtman, John Francis, Jr. TC N 1
 Howell, Joseph Adams, Jr. TC M 4
 Howerton, Beverly Royster TC C 3
 Hudson, Fitzgerald Salter EC M 6
 Hudson, Ralph Fletcher TC N 4
 Huelsner, George Wells TC C 3
 Forest Hills, Md.
 High Point, N. C.
 Huntington, W. Va.
 Greensboro, N. C.
 Park Ridge, Ill.
 Snyder, Okla.
 Chicago, Ill.
 Isafjordur, Iceland
 Cumberland, Md.
 Andrews, S. C.
 Wendell, N. C.
 Tolono, Ill.
 Baltimore, Md.
 Atlanta, Ga.
 Arlington, Va.
 Man, W. Va.
 Louisville, Ky.
 Charleston, S. C.
 Grand Rapids, Mich.
 Wilmington, N. C.
 Shreveport, La.
 Ridley Park, Pa.
 Bronxville, N. Y.
 Bronxville, N. Y.
 Decatur, Ala.
 Orlando, Fla.
 Marshville, N. C.
 Spring City, Pa.
 Trenton, N. J.
 Lamesa, Tex.
 Hendersonville, N. C.
 Coral Gables, Fla.
 Murrys ville, Pa.
 Columbus, Ohio
 Starkville, Miss.
 Bronxville, N. Y.
 Claremont, N. C.
 Roselle, N. J.
 Blakely, Ga.
 Kenly, N. C.
 Mt. Airy, N. C.
 Statesville, N. C.
 Greenwood, S. C.
 Milan, Tenn.
 Durham, N. C.
 Kinston, N. C.
 Atlanta, Ga.
 Muncie, Ind.
 Merion, Pa.
 Greensboro, N. C.
 Leesport, Pa.
 Tallahassee, Fla.
 Indianapolis, Ind.
 Clayton, Del.
 Richmond, Va.
 Durham, N. C.
 Montgomery, Ala.
 Mt. Morris, Ill.
 Staten Island, N. Y.

- Huether, Harry Douglas EC M 4
 Hughes, James Albert TC N 2
 Hughes, Thomas Pickney TC C 1
 Huli, Ezekiel Hoover TC C 1
 Humphrey, Robert Leroy TC N 2
 Humphreys, Charles Wesley TC N 4
 Humphries, Bishop Marvin, Jr. TC C 3
 Hunter, William Cecil, Jr. TC N 1
 Huntley, Justus Robert, Jr. TC N 6
 Hurwitz, Irving TC N 2
 Hutson, Louis O'Brien TC N 2
 Hutt, Richard Rudolph EC N 8
 Hutton, William Caldwell TC N 1
 Hyde, James Arthur TC N 3
 Imhoff, John Leonard TC N 5
 Inman, Walter Griffee TC N 1
 Irwin, Frank Moore EC N 6
 Isenhour, Merle Edwin EC N 8
 Ivanovsky, Donat V. TC C 6
 Jackson, Carroll Shattuck EC M 4
 Jackson, William Morrison EC M 4
 Jacobs, Ralph William TC N 4
 Jacobson, Henry Samuel TC N 4
 James, Charles Macarthur TC C 1
 James, Curtis A. TC M 4
 Janatka, Joseph TC N 3
 Jarvis, Hallett Ward TC C 4
 Javer, Jerome Milton TC C 5
 Jeffries, William Wesley TC N 2
 Jelks, Howard Coates, Jr. TC C 1
 Jenkins, Morris Nathan TC M 1
 Jensen, James Allen EC N 8
 Jerome, Henry London EC N 3
 Jeske, Richard John TC N 1
 Jewell, David William TC N 3
 Jilcott, Clarence Poe EC N 4
 Johns, Theron TC N 4
 Johnson, Edward Louis EC N 8
 Johnson, Henry Stanley, Jr. TC M 2
 Johnson, John Nasbitt TC N 1
 Johnson, Ralph Wright TC N 4
 Johnson, Randall Robert TC N 2
 Johnson, Richmond Coulter TC C 1
 Johnson, Robert Lewis TC N 2
 Johnston, Richard Arthur TC N 2
 Jolliffe, Charles Nelson TC N 2
 Jones, Conway Jefferson TC C 4
 Jones, David Norval TC N 2
 Jones, John Charles TC N 3
 Jones, John H. TC N 6
 Jones, Luther Clarke TC N 6
 Jones, Roger Kent TC N 5
 Jones, Tenley Moon TC N 1
 Jordan, Riley Moore TC N 2
 Jordan, Samuel Kelly TC N 3
 Jorgensen, Paul Seur TC N 3
 Joy, William A. TC C 8
 Joyce, Charles Edward, Jr. TC N 6
 Joye, Raleigh LaVerne TC N 3
 Jules, Philip TC N 5
- Baltimore, Md.
 Kingsport, Tenn.
 Sumter, S. C.
 Reidsville, N. C.
 Baltimore, Md.
 Washington, D. C.
 Charlotte, N. C.
 Phoenix, Ariz.
 Westfield, N. J.
 Washington, D. C.
 Florence, S. C.
 Hammon, N. J.
 Collierville, Tenn.
 Clinton, N. Y.
 Baltimore, Md.
 Paris, Tenn.
 Raleigh, N. C.
 Durham, N. C.
 Valley Cottage, N. Y.
 Baltimore, Md.
 Framingham, Mass.
 Plainfield, N. J.
 New York, N. Y.
 Mexico, Mo.
 Newport, Ky.
 Berwyn, Ill.
 Charleston, S. C.
 Brooklyn, N. Y.
 Arlington, Va.
 Ft. Lauderdale, Fla.
 Tampa, Fla.
 Great Neck, N. Y.
 Pittsboro, N. C.
 Westfield, N. J.
 Mission, Kan.
 Kelford, N. C.
 Live Oak, Fla.
 Bellaire, N. Y.
 Columbia, S. C.
 Clay, Ky.
 Nashville, Tenn.
 Lakewood, Ohio
 Moosup, Conn.
 Hendersonville, N. C.
 Orlando, Fla.
 Winchester, Va.
 Fountain Inn, S. C.
 Ft. Lauderdale, Fla.
 Grassy Creek, N. C.
 Ashley, Pa.
 Richmond, Va.
 Manhattan, Ill.
 Washington, D. C.
 Timberland, N. C.
 Albemarle, N. C.
 Chicago, Ill.
 Ventnor, N. J.
 Providence, R. I.
 Columbia, S. C.
 Los Angeles, Calif.

- Justice, Louis Eugene TC N 6
 Kagarise, Ronald Eugene TC N 1
 Kaley, Harry E. EC N 8
 Karcher, Duncan Edward, Jr. TC N 3
 Kasch, Norman Arthur TC N 3
 Katzenstein, Henry Sour EC C 3
 Kaufman, Stanley Lionel TC M 4
 Kearns, Tom Johnston TC C 1
 Keeler, Joseph Ignatius TC N 2
 Keeney, Carl Roy TC N 4
 Keevan, Thomas John TC N 3
 Keffer, Ernest Jackson, Jr. TC N 3
 Keller, Robert Taylor TC C 1
 Keller, William Slotterback TC C 1
 Kelley, MacLean TC N 3
 Kelly, James Gerald EC N 6
 Kelly, John Vincent TC N 3
 Kemp, Clarence Edward TC M 4
 Kennard, James Cecil TC N 2
 Kennedy, George Ernest EC M 4
 Kennedy, Walter Jameson TC N 2
 Kenney, John Franklin TC N 3
 Kereazes, John August TC N 3
 Kerns, John Emery TC M 3
 Ketts, Benjamin Edward TC N 4
 Key, Charles Marion TC N 1
 Key, John Dudley, Jr. TC N 5
 Keyser, Walter Frank TC N 3
 Kibler, Robert Franklin TC C 6
 Kiernan, Thomas Joseph TC N 5
 Kilmer, Donald Allan TC N 3
 Kimbrell, Jay Edward TC C 1
 Kimbrell, Odell Culp, Jr. TC C 1
 King, Joseph Calvin EC N 4
 Kingsley, Charles Joseph EC N 3
 Kinney, Rothwell Jay TC N 5
 Kirk, Claude Roy TC M 4
 Kirkman, David Clifton EC N 5
 Kirkpatrick, Ronald Eugene TC N 1
 Klaaren, Hobart Ernest TC N 4
 Kline, John Louis, Jr. TC N 2
 Kline, William Rexroad TC N 1
 Knabe, Lloyd Condon, Jr. TC N 5
 Knight, Austin Ruddock EC M 4
 Knight, Francis Arnold TC N 6
 Knotts, Ernest Mack TC N 5
 Koenig, Elmer August EC N 3
 Kohl, Thomas Joseph TC N 4
 Kolodne, Walter Jerome EC N 5
 Koonce, Arnold Jackson TC N 5
 Korelitz, Burton Irwin TC C 6
 Koutsky, George TC N 3
 Kowalski, Ludwig Robert TC N 1
 Kozluk, Walter TC N 3
 Krause, Ralf TC N 3
 Krauss, Edward TC N 3
 Krieger, Andrew Francis TC N 3
 Kriser, Louis TC N 1
 Krisza, John, Jr. TC N 3
 Krivit, William TC C 6
 Lynchburg, Va.
 Roaring Spring, Pa.
 Lancaster, Pa.
 New York, N. Y.
 Blue Island, Ill.
 Shreveport, La.
 Burlington, Vt.
 High Point, N. C.
 Columbia, S. C.
 Glen Ferris, W. Va.
 Forest Hills, N. Y.
 Roanoke, Va.
 Avon Park, Fla.
 Mowry, Pa.
 Rockford, Ill.
 Durham, N. C.
 Jackson Heights, N. Y.
 High Point, N. C.
 Ashland, Ky.
 Turtle Creek, Pa.
 Jacksonville, Fla.
 Scottsdale, Pa.
 Chicago, Ill.
 Geneva, Ohio
 Ralston, Okla.
 Cairo, Georgia
 El Centro, Calif.
 Penns Park, Pa.
 Durham, N. C.
 New York, N. Y.
 River Forest, Ill.
 Durham, N. C.
 Durham, N. C.
 Leaksville, N. C.
 Mentor, Ohio
 Portland, Ore.
 Montgomery, Ala.
 Pleasant Garden, N. C.
 Covington, Ky.
 Chicago, Ill.
 Norfolk, Va.
 Washington, D. C.
 Catonsville, Md.
 Beverly, Mass.
 Blountstown, Fla.
 Albemarle, N. C.
 Libertyville, Ill.
 Glenview, Ill.
 Washington, D. C.
 High Point, N. C.
 Lawrence, Mass.
 Chicago, Ill.
 Belleville, N. J.
 New York, N. Y.
 College Pt., N. Y.
 Lynbrook, N. Y.
 Troy, N. Y.
 Brooklyn, N. Y.
 McKees Rocks, Pa.
 Linden, N. J.

- Kroll, Dan Wesley TC N 1
 Kronke, Edward Blaise TC N 6
 Krueger, Robert Otto TC N 4
 Kucerik, Edwin Anton TC N 2
 Kuhlman, Ormand Frederick TC N 3
 Kulow, Frederick Charles TC N 3
 Kurtz, William B. EC N 6
 Kuscevic, Edward Nick TC N 3
 Kusturiss, Michael Emanuel TC N 6
 Kyle, Joe Merrill TC N 1
 Laakso, Leslie Raymond TC N 3
 Lahtinen, Robert Wyman TC N 3
 Lamb, Frank Thompson TC N 5
 Lamb, Warren Stacy TC N 3
 Lambert, Edgar Ellsworth TC N 2
 Land, Morton Lewis TC C 1
 Landis, Clayton Dallas TC N 3
 Lange, Carl James TC N 4
 Langton, John Ellis TC N 5
 Lapham, George Sealy TC N 4
 Lapp, Robert Edward TC C 1
 Larsen, Robert John TC M 4
 LaRue, Jim Elmer TC N 4
 Lauro, Vito John TC N 4
 Laverty, Robert Anthony TC M 4
 Lawler, Charles Adrian TC N 2
 Lawless, Joseph Thomas, III TC N 1
 Lawson, William Barnes TC N 4
 Lawton, William Stanley TC N 4
 Leary, James Edward TC C 3
 Lee, Edwin Borden, Jr. TC N 6
 Lee, Herbert Martin TC N 3
 Lee, James Harold TC C 1
 Lee, Joseph Martin, Jr. TC N 2
 Legare, John Edward TC N 2
 Leigh, Robert Edward, Jr. TC C 6
 Leinung, John Gustave TC N 2
 Leis, Ernest Raymond TC N 1
 Leitheiser, William John TC C 6
 Lemley, William Marvin TC N 2
 Lent, Robert Eugene TC N 3
 Lentz, John Franklin TC C 1
 Leonard, Holland Braudis, Jr. TC C 1
 Letters, Howard Wesley TC N 1
 Leu, Rudolph Robert TC N 1
 Levy, J. Leo EC N 6
 Lewis, Clifford Allen TC C 3
 Lies, William, III TC C 7
 Lilly, Edward Charles TC N 2
 Lilly, George Moses TC M 4
 Linberg, Eugene Joseph TC C 8
 Lindsey, Ray Lavond EC M 7
 Lindsey, Willis Callaway, Jr. TC C 1
 Lineback, Paskel Lee TC N 1
 Lineweaver, John Rogers TC M 1
 Linker, Edward Markham TC N 1
 Linsley, John Henderson TC M 4
 Lippincott, William Crispan TC N 1
 Lipscomb, Tommy Smith TC C 1
 Lipsitz, Lee Stanley TC C 4
 Martin, Tenn.
 Queens Village, N. Y.
 Appleton, Wis.
 West Springfield, Mass.
 Elmore, Ohio
 Milwaukee, Wis.
 Waterbury, Conn.
 Chicago, Ill.
 Canonsburg, Pa.
 Takoma Park, Md.
 Eben Junction, Mich.
 Chicago, Ill.
 Rochester, N. Y.
 William Island, Neb.
 Rocky Mount, N. C.
 Baltimore, Md.
 Elgin, Ill.
 Oil City, Pa.
 Williamsburg, Va.
 Columbus, Ga.
 Irvington, N. J.
 Kansas City, Mo.
 Clinton, Okla.
 Brooklyn, N. Y.
 Leominster, Mass.
 Marshall, Va.
 Norfolk, Va.
 Arlington, Va.
 St. Petersburg, Fla.
 Jonesboro, Ark.
 Goldsboro, N. C.
 Baldwin, N. Y.
 Charlotte, N. C.
 Erwin, N. C.
 Waycross, Ga.
 Kinston, N. C.
 Bronx, N. Y.
 Metuchen, N. J.
 Clearwater, Fla.
 Smithfield, W. Va.
 Minneapolis, Minn.
 Ellerbe, N. C.
 High Point, N. C.
 Crafton, Pa.
 Akron, Ohio
 Baltimore, Md.
 Cleveland, Ohio
 Coleman, Ga.
 New Orleans, La.
 Mount Hope, W. Va.
 Carney's Point, N. J.
 Blakely, Ga.
 Washington, Ga.
 Mt. Airy, N. C.
 Baltimore, Md.
 Chapel Hill, N. C.
 N. Windham, Me.
 Red Bank, N. J.
 Angier, N. C.
 Ahoskie, N. C.

- Llewellyn, Linus William TC N 1
 Lodor, James Craig EC N 6
 Loftin, Horace Greeley TC C 1
 Logan, David Malcolm EC M 4
 Logan, Robert Henry, Jr. TC N 1
 Long, Paul E. EC N 8
 Longenecker, Donovan Leroy TC N 3
 Longley, Clarence Mobley, Jr. TC N 2
 Lopez, Ramon TC N 4
 Lorenzen, Robert Frederick TC C 6
 Love, Nash Monroe EC N 3
 Lowdermilk, Robert Elbert TC C 1
 Lowe, Donald Scott TC N 3
 Lucas, Stephen John TC N 4
 Lundstrom, George Henry TC N 2
 Lutterloh, Ralph Buxton TC N 4
 Luttrell, John Lore TC N 1
 Lysterly, James Gilbert, Jr. TC N 5
 Lynch, George Cunningham TC N 1
 Lynes, Gerald Wynfield TC N 4
 McAlister, Joseph H. TC C 6
 McAllister, Hubert Eugene TC M 1
 McCabe, William John, Jr. TC N 3
 McCall, William TC N 4
 McCallum, Paul Gregory TC N 2
 McCanness, Edgar Eugene TC C 6
 McCarver, Charles Truitt TC N 3
 McClamroch, William Porter TC C 1
 McClellan, Thomas Carson TC N 2
 McClellan, Van Patrick TC N 3
 McClelland, Dean S. EC N 8
 McClelland, Warne Bruce TC N 4
 McCloskey, William Francis TC N 2
 McCown, Wallace Hardin TC N 6
 McCoy, John Philip TC N 1
 McCreight, Paul Willard TC N 6
 McCulloch, Francis Walton EC M 7
 McCullough, William Victor TC N 1
 McDonald, Frank B. TC N 6
 McDonald, John Erle, Jr. TC N 3
 McDonald, John Woodrow TC N 2
 McDonald, Joseph Frank TC N 3
 McDonald, Raymond Oswald, Jr. TC N 3
 McDonald, William Maddox TC N 4
 McDonnell, Harry Aloysius TC N 1
 McEldowney, Thomas Cairns TC N 3
 McEntyre, Hubert TC M 6
 McGowan, John Richard TC N 4
 McGraner, James Ernest TC N 3
 McGraw, William H. TC N 6
 McGreevey, Robert Dillon TC N 1
 McHugh, Kenneth Laurence TC N 1
 McKee, William David EC N 4
 McKenzie, James William TC N 3
 McKenzie, Thomas Marshall, Jr. TC N 1
 McKinley, Charles Alexander TC N 3
 McLain, William E. TC N 5
 McLaughlin, Harold Joseph TC N 1
 McMillan, Edward Webb TC N 4
 McMurrin, William Royall EC N 6
 Chattanooga, Tenn.
 Wilmington, N. C.
 Beaufort, N. C.
 White River Junction, Vt.
 Seaford, Del.
 Roanoke, Va.
 Lewisburg, Ohio
 Orlando, Fla.
 McAllen, Tex.
 Toledo, Ohio
 Charlotte, N. C.
 Greensboro, N. C.
 Key West, Fla.
 Beaverdale, Pa.
 New York, N. Y.
 Fayetteville, N. C.
 Memphis, Tenn.
 Jacksonville, Fla.
 Hillsboro, N. C.
 Ridgeland, S. C.
 Caruthersville, Mo.
 Greenwood, S. C.
 Cambridge, Mass.
 Winston-Salem, N. C.
 Washington, D. C.
 Canton, Ga.
 Bridgeport, Conn.
 Durham, N. C.
 Tellico Plains, Tenn.
 Anderson, S. C.
 Johnstown, Pa.
 Ferndale, Mich.
 New Brunswick, N. J.
 Johnson City, Tenn.
 Mt. Pleasant, Tenn.
 Huntington, W. Va.
 Huntsville, Ala.
 Pittsburgh, Pa.
 Columbus, Ga.
 Norfolk, Va.
 Orange, Tex.
 Freeport, N. Y.
 Tampa, Fla.
 Washington, D. C.
 Washington, D. C.
 Charleston, W. Va.
 Tryon, N. C.
 Amboy, Ill.
 Haydenville, Ohio
 New York, N. Y.
 Garden City, N. Y.
 New York, N. Y.
 Forest Hills, N. Y.
 Washington, D. C.
 Memphis, Tenn.
 Siloam, Ga.
 Salem, Ala.
 Freeport, N. Y.
 Charleston, S. C.
 Norfolk, Va.

- McMurray, Samuel Franklin TC N 3
 McMurry, Benjamin Franklin, Jr. TC N 4
 McNeely, Robert Louis TC M 4
 McPherson, Harry T. TC C 6
 McWhorter, John Lloyd TC N 3
 McWilliams, Thomas Peter TC C 6
 MacArthur, Eugene Robert TC N 5
 MacArthur, Neal Pat, Jr. TC C 1
 Macbeth, William Benson TC N 3
 MacKenzie, Robert Preston, Jr. TC N 1
 Macklin, Theodore Ora TC M 4
 Macrae, Robert Baird TC N 2
 Madlon, Eugene August TC N 1
 Maginnis, James Barrett TC N 3
 Maher, Dennis Ervin TC N 3
 Mahoney, Harry Linwood, Jr. TC N 1
 Mairs, Daniel Atlee TC N 1
 Majzun, Joseph, Jr. TC N 2
 Makosky, Robert Charles TC C 6
 Malcolm, Robert Samuel TC C 3
 Malloy, Justin Warren TC N 1
 Malone, Brainerd Ernest TC N 4
 Mangan, Lawrence Daniel TC C 1
 Mangum, Junius Adolphus TC N 3
 Mann, Frederick L. EC C 8
 Manning, Walter Harold TC N 5
 Markham, Charles Buchanan TC C 6
 Marquess, John Rogers TC M 6
 Marsh, Spinks Hamilton TC C 7
 Marshall, Charles Hayward, Jr. EC N 8
 Martin, Francis Benedict, Jr. TC N 1
 Martinat, Edwin Henry TC N 4
 Massey, Thomas Benjamin TC N 3
 Massi, Arthur Carman TC N 1
 Masson, James E. TC C 1
 Masters, Richard Warren EC N 3
 Matherly, Ulysses Grant TC M 6
 Mathis, William Lowrey TC N 1
 Mathisen, Glenn Estes TC N 2
 Matthai, Paul Frederick TC N 3
 Matthews, James C. TC N 4
 Maxwell, D. Jack EC C 8
 Maxwell, Robert Reginald EC M 4
 Mayo, Joseph Dixon TC N 3
 Mays, Alexander Alen TC N 4
 Meacham, Hudson Peavy TC C 1
 Meader, Philip Warren EC M 4
 Meadows, Richard Lynn TC N 1
 Meek, James Monroe, Jr. TC N 2
 Meeker, James Allen TC N 3
 Meekins, James Claiborne TC N 1
 Megroz, Pierre Roger TC N 1
 Melamet, Carl TC N 1
 Melton, Robert Witcher TC C 4
 Mendenhall, John Henry TC N 2
 Menke, Robert Louis TC N 3
 Menna, Joseph EC N 5
 Merrick, Robert Wakefield TC N 4
 Mesler, Robert Gerald TC N 1
 Messer, Henry Davis TC C 1
 Tampa, Fla.
 Knoxville, Tenn.
 Natchez, Miss.
 Walnut Cove, N. C.
 Waxhaw, N. C.
 Scranton, Pa.
 Leesville, La.
 Goldsboro, N. C.
 Ventnor, N. J.
 Washington, N. C.
 Lowell, Mass.
 Plainfield, N. J.
 Ferdinand, Ind.
 Baltimore, Md.
 St. Paul, Minn.
 Raleigh, N. C.
 Charleston, W. Va.
 Bellaire, Ohio
 Alhambra, Calif.
 Dayton, Ohio
 Washington, D. C.
 Wewoka, Okla.
 Chicago, Ill.
 Salisbury, N. C.
 Drexel Hill, Pa.
 Miami, Fla.
 Durham, N. C.
 Decatur, Ga.
 Monroe, N. C.
 Washington, D. C.
 Clarksburg, W. Va.
 Lenoir, N. C.
 Charlotte, N. C.
 Bristol, Pa.
 Central Igualdad, P. R.
 Hershey, Pa.
 Sarasota, Fla.
 Memphis, Tenn.
 Norfolk, Va.
 Baltimore, Md.
 Winton, N. C.
 Johnstown, Pa.
 Long Island, N. Y.
 Henderson, N. C.
 Pittsburgh, Pa.
 Jacksonville, Fla.
 Whitinsville, Mass.
 Knoxville, Tenn.
 Knoxville, Tenn.
 Toledo, Ohio
 High Point, N. C.
 Mt. Vernon, N. Y.
 Chestertown, Md.
 Brevard, N. C.
 Orlando, Fla.
 Elgin, Ill.
 New Haven, Conn.
 Salina, Kan.
 Erie, Pa.
 Madison, Fla.

Messinger, Arthur Louis, Jr. TC N 5
 Metzger, Linwood Hugh TC N 3
 Metzger, Paul A. TC N 3
 Meyer, Warren John EC N 6
 Micara, Francis A. E. TC N 8
 Michael, Herman Lloyd TC M 2
 Mieczkowski, John Joseph TC M 4
 Mihalow, John Joseph TC N 4
 Miller, Arthur Marcus, Jr. TC N 6
 Miller, Claudius TC N 1
 Miller, James Herbert, Jr. TC C 1
 Miller, John George TC N 1
 Miller, Kenneth Elwood TC N 4
 Miller, Laurence Spurlock, Jr. TC N 2
 Miller, Marvin Parmcek TC N 6
 Miller, Norman Maurice TC N 1
 Miller, Richard Hershey TC N 1
 Miller, William Henry, Jr. TC N 1
 Miller, William Hugh, Jr. EC N 6
 Milne, Peter TC N 3
 Milone, Robert Louis TC N 1
 Mintz, Ronald Earl TC M 4
 Mirabito, Thomas William TC N 1
 Mitchell, Grady Purden, Jr. TC M 1
 Moehlenkamp, Fred G. TC N 4
 Moen, Roger Orin TC N 6
 Moeves, Charles John TC N 2
 Moody, Austin Lee, Jr. TC N 4
 Moody, Frank Eugene TC N 1
 Moore, Louis Doyle, Jr. TC C 4
 Moore, Sherwood TC C 7
 Moore, Tom Ernest TC C Special
 Moore, William Philip, Jr. TC C 1
 Morgan, James Leroy TC N 4
 Morgan, Joseph Patrick TC N 6
 Morgan, Lawrence Eugene TC N 2
 Morgan, Paul Justice TC N 2
 Morgan, Raymond James TC N 1
 Moring, Bernard Christopher, Jr. EC M 4
 Morningstar, Charles Franklin TC N 2
 Morris, Russell Miller TC N 1
 Morrow, Richard Carl TC M 4
 Morse, James Reynolds TC N 5
 Mosher, Edward Platt, Jr. TC N 2
 Mraz, James Joseph William TC N 3
 Mullen, Harris Hopkins TC N 3
 Muller, Donald H. EC N 6
 Muller, John Crawford TC C Special
 Mullinnix, Ralph Charles TC N 4
 Mulvey, Edward Thomas, Jr. TC C 1
 Munro, Bursell G. TC N 3
 Murchison, Clinton Williams, Jr. EC M 8
 Murff, James Theo TC N 2
 Murphy, Alvin Rush, Jr. EC N 3
 Murphy, Robert Logan TC N 3
 Murray, Calvin Leo EC M 4
 Murray, Donald, Jr. TC N 1
 Murray, John Kevin TC N 2
 Murray, Robert Filgo TC C 6
 Myatt, Ernest George TC N 4
 Chicago, Ill.
 Richmond, Va.
 Columbus, Ohio
 Staten Island, N. Y.
 Brooklyn, N. Y.
 Bradenton, Fla.
 Westport, Mass.
 Trenton, N. J.
 Elmira, N. Y.
 Greensboro, N. C.
 Morehead City, N. C.
 Port Angeles, Wash.
 Sacramento, Calif.
 Brunswick, Ga.
 Chicago, Ill.
 Washington, D. C.
 Glenside, Pa.
 Chicago, Ill.
 Highland Park, Mich.
 Niagara Falls, N. Y.
 Livingston, N. J.
 Rocky Mount, N. C.
 Santa Monica, Calif.
 Pascagoula, Miss.
 Wyandotte, Mich.
 Raleigh, N. C.
 Covington, Ky.
 Woodstown, N. J.
 Asheville, N. C.
 Toccoa, Ga.
 Daytona Beach, Fla.
 Durham, N. C.
 Greenville, N. C.
 Norfolk, Va.
 Tulsa, Okla.
 Advance, Ohio
 Kernersville, N. C.
 Seattle, Wash.
 Norfolk, Va.
 Marrietta, Pa.
 Harrisonburg, Va.
 Wyandotte, Mich.
 Mason City, Iowa
 Charleston, S. C.
 Chicago, Ill.
 Tampa, Fla.
 Brooklyn, N. Y.
 Dillon, S. C.
 Indianapolis, Ind.
 Greensboro, N. C.
 Miami, Fla.
 Dallas, Tex.
 Calhoun City, Miss.
 Knoxville, Tenn.
 Ocala, Fla.
 Butler, Okla.
 Roanoke, Va.
 Long Island, N. Y.
 Lenoir, N. C.
 Durham, N. C.

- Myerberg, Alvin Jerome TC C 1
 Myers, Robert Eugene TC N 4
 Nabow, Stanley Ellman EC C 3
 Nagel, Sylvan Eugene EC N 3
 Nagler, Gordon Richard TC N 3
 Napier, Baxter Wilson, Jr. TC N 3
 Narron, Talmadge L. G. TC N 6
 Nathan, Alan Matthew TC N 8
 Neece, Talmadge Macon TC N 6
 Nelson, Joseph Lee, Jr. EC M 8
 Nelson, Kenneth Carl TC N 3
 Neudecker, Joseph Wheeler, Jr. TC N 1
 Newburg, Peter Lee TC N 4
 Newcomb, Nelson Faulks TC N 5
 Newell, Ernest Tittle TC C 1
 Newlands, Lester William TC N 1
 Newman, Ernest Gustave TC N 3
 Newman, Van Talberg, Jr. TC C 1
 Newquist, Edward Wallace TC N 7
 Newsome, George Hassell TC N 2
 Newton, Ernest Cliborne TC N 4
 Newton, Robert Lee TC N 5
 Nichols, Elwyn Coats TC N 2
 Nichols, Philip Andrew TC C 1
 Nichols, Robert Hill TC N 3
 Nicholson, Hobart Garrett TC N 2
 Nickerson, Marcus Franklin, III TC N 4
 Nickinson, Edward Phillips, Jr. EC C 3
 Nist, Donald Edward TC N 4
 Nolen, Andrew Jack TC N 3
 Nordin, Warren Alfred TC N 4
 Nordstrom, Frank B. TC N 4
 Norfolk, Ira Pierce TC M 1
 Norris, John Ernest, Jr. EC N 7
 Norris, Robert Henry TC N 3
 Norris, Robert Willingham EC N 6
 Northup, Aldrich Holt TC N 5
 Norvesh, Edward Stephen TC N 3
 Nunnally, James Ray TC N 6
 Oakes, Burton David TC N 2
 Oakley, Bill Thompson TC N 1
 Oakley, William Fred TC N 4
 Obenchain, John Alan TC N 2
 O'Briant, Paul William, Jr. TC N 1
 O'Brien, Hubbert Liguori EC M 4
 O'Brien, James Dennis TC N 2
 O'Connor, James Benjamin TC C 1
 Oder, Robert James TC N 6
 Oetzell, Walter Allen TC N 3
 O'Hara, John Joyce TC N 1
 Olds, Bomar Amos TC N 1
 Oliphant, Wilbur Hunnicutt, Jr. TC C 3
 Ollen, Walter George TC N 3
 Olsen, John Hardman TC N 1
 Olson, Robert Dale TC N 3
 O'Neal, John Thomas TC N 4
 O'Neill, David Henry, Jr. TC N 1
 Oosterhoudt, Allen C. TC C 3
 Ornoff, Harold EC C 7
 Orthen, Richard Ferdinand TC N 1
 Baltimore, Md.
 Clinton, Ill.
 Charlotte, N. C.
 New Orleans, La.
 Baltimore, Md.
 Louisville, Ky.
 Kenly, N. C.
 New York, N. Y.
 Pleasant Garden, N. C.
 Norfolk, Va.
 Elkhart, Ind.
 Memphis, Tenn.
 Austin, Minn.
 Roselle, N. J.
 Bryson City, N. C.
 Southbridge, Mass.
 Pensacola, Fla.
 Sumter, S. C.
 Lebanon, Ky.
 Tarboro, N. C.
 Skipwith, Va.
 Durham, N. C.
 Birmingham, Ala.
 Owego, N. Y.
 Pittsford, N. Y.
 Cartersville, Ga.
 Knoxville, Tenn.
 Pensacola, Fla.
 Chicago Heights, Ill.
 Winona, Tex.
 La Grange, Ill.
 Glen Ellyn, Ill.
 Baltimore, Md.
 Columbia, N. C.
 Caldwell, N. J.
 Chattanooga, Tenn.
 Pensacola, Fla.
 East St. Louis, Ill.
 Hugo, Okla.
 Greensboro, N. C.
 Nashville, Tenn.
 Savannah, Ga.
 Logansport, Ind.
 Washington, D. C.
 Baltimore, Md.
 Lake City, Iowa
 Chauncey, Ga.
 Toledo, Ohio
 Villa Park, Ill.
 Washington, D. C.
 College Park, Ga.
 Memphis, Tenn.
 Jamaica, N. Y.
 Wilmington, N. C.
 La Moille, Ia.
 Washington, D. C.
 Memphis, Tenn.
 Jacksonville, Fla.
 Durham, N. C.
 Jersey City, N. J.

- Ostendarp, George William TC N 1
 Owen, David Shreve TC M 4
 Owen, Herman William TC N 8
 Owen, Jean Worth TC M 6
 Owen, Lincoln TC C 3
 Owen, William Edison TC M 6
 Oyen, William TC N 4
 Pace, Thomas Marshall TC C 5
 Padgett, Joseph Louis TC N 4
 Page, Ernest Benjamin, Jr. TC N 4
 Page, Robert Lionel TC N 4
 Pappas, Theodore John TC N 3
 Pardee, Graham F. TC N 3
 Park, Ulna Foster TC N 4
 Parker, Austin Smith TC M 2
 Parr, Ross Clayton TC N 4
 Partridge, William Elmore TC N 3
 Pasker, Leonard TC N 2
 Pasquinelli, Leo John TC N 3
 Past, Si Alexander TC M 6
 Patafio, John Joseph TC N 3
 Patrick, William Franklin TC N 4
 Patterson, Lawrence William, Jr. TC N 1
 Patton, Michael Franklyn TC N 4
 Patton, Russell H. TC C 3
 Paugh, Lawrence Richard TC N 3
 Paul, Howard TC N 4
 Paulson, Theodore Bill TC N 3
 Paveglio, Richard Lewis TC N 3
 Paytash, Joseph, Jr. TC N 4
 Pearce, William Beacham TC N 1
 Pearson, Cordie Lester, Jr. TC N 3
 Pease, Robert Glenn TC N 3
 Peasley, John Warren TC N 4
 Peek, William Litch TC N 1
 Peeler, Burlie Starr, Jr. TC C 1
 Peeples, Paul Wiggins TC C 1
 Peksa, Charles Francis TC N 3
 Penick, Edward Crenshaw TC N 3
 Pennington, Donald Bond TC N 3
 Pennington, Schuyler Wayne TC C 4
 Penske, Herbert Willis TC N 1
 Percifield, Franklin Ward TC N 1
 Pering, Thomas Henry TC N 3
 Perini, Edward Paul TC C 1
 Perkins, John Paul TC M 3
 Perkins, William Allan TC M 4
 Perlow, Albert TC N 3
 Perry, James Warden TC N 4
 Perry, Leland Myre TC N 3
 Perryman, Frank Gene TC N 2
 Perryman, John Davis TC M 3
 Peters, Charles Eugene TC C 4
 Peters, James Edward TC N 3
 Petersen, Charles Andrew TC N 4
 Peterson, Herrick Roland TC N 6
 Peterson, James Hardin TC N 4
 Peterson, Jimmy TC N 1
 Pettit, Thomas Kenneth TC N 2
 Peyton, Thomas Pendleton, III EC M 6
 Baltimore, Md.
 Lancaster, Ohio
 New York, N. Y.
 Tallahassee, Fla.
 Cleveland, Ohio
 Washington, D. C.
 Chicago, Ill.
 Pensacola, Fla.
 Burns City, Ind.
 Raleigh, N. C.
 Erick, Okla.
 Belleville, Mich.
 Floral Park, N. Y.
 Columbia, Tenn.
 Charleston, S. C.
 Kalamazoo, Mich.
 Beacon, N. Y.
 Frackville, Pa.
 Baltimore, Md.
 Chattanooga, Tenn.
 Brooklyn, N. Y.
 St. George, S. C.
 Tampa, Fla.
 Spartanburg S. C.
 Jonesboro, Ark.
 New York, N. Y.
 Marquette, Mich.
 Newaygo, Mich.
 Waukegan, Ill.
 Lafferty, Ohio
 Greenville, S. C.
 Wilmington, N. C.
 Canandaigua, N. Y.
 Flossmoor, Ill.
 North Hampton, N. H.
 Kings Mountain, N. C.
 Estill, S. C.
 Catonsville, Md.
 Hopkinsville, Ky.
 York, Pa.
 Mt. Holly, N. C.
 Cheverly, Md.
 None given
 Springfield, Mo.
 Stewartsville, N. J.
 Lakewood, Ohio
 Charlottesville, Va.
 Baltimore, Md.
 Oak Hill, W. Va.
 Walker, Mo.
 Sylacauga, Ala.
 Lecanto, Fla.
 Alexander, Iowa
 Cambridge, Mass.
 Elgin, Ill.
 Day Brook, N. C.
 Lakeland, Fla.
 Asheville, N. C.
 Baltimore, Md.
 Crozet, Va.

- Pfaff, Andrew John TC N 6
 Pfeffer, Louis Roland TC C 1
 Phillips, John Drury EC M 4
 Phillips, Leonard TC N 6
 Piccone, Domenic TC N 4
 Pierce, John Anthony, Jr. TC M 4
 Pierce, John Everett, Jr. TC C 1
 Pingitore, Joseph Mario, Jr. TC C 1
 Pingree, Frank Burton TC N 4
 Pinnell, William Brooks, TC N 4
 Pittman, Luther Hollingsworth TC N 6
 Plosica, Robert Raymond TC C 1
 Plunkett, Robert Dale TC N 3
 Poe, Robert Giles TC N 1
 Poerschke, Edward Robert TC N 3
 Pohlers, Norman John TC N 1
 Poling, Edwin Ray TC N 3
 Polinger, David Harris TC C 2
 Porter, David Gordon TC C 1
 Porter, Harold Ellis TC N 3
 Post, Jerald Bernard TC N 4
 Powell, Harry Rutter EC N 6
 Powell, John Henry TC N 3
 Powell, Paul Stewart TC N 4
 Powers, Richard Walter, Jr. EC M 4
 Prairie, Robert Lyle TC N 1
 Pratt, Edmund Taylor, Jr. TC N 1
 Pratt, Harry Chester TC M 2
 Preslar, Glenn Little TC C 2
 Presson, James Roy, Jr. TC C 3
 Preston, John Edward TC N 1
 Price, Richard Jay TC N 3
 Priemer, August Bernhard TC C 3
 Procopion, Samson John EC N 6
 Proctor, James Wardwell, Jr. TC N 1
 Progler, Harry Smith EC N 3
 Pruitt, James Henry TC N 3
 Ptaschinski, George Howard TC N 1
 Puckett, Eugene Richard TC N 2
 Pumpian, Benton Joseph TC C 1
 Putnam, Gerrie Price TC N 2
 Pyne, Thomas Charles TC N 4
 Quain, John Joseph TC N 2
 Quigley, John Edward TC M 3
 Quinn, Amory Edward, Jr. TC N 3
 Rabenberg, Jack Rodney TC N 5
 Rabin, David EC M 6
 Radford, William Maytton TC N 1
 Raether, Harold TC N 3
 Ragsdale, Lee Morris EC N 3
 Ramey, Robert Lee EC N 6
 Randleman, Ernest Augustus TC N 2
 Rankin, William Charles TC N 1
 Ranon, Severin Donald EC N 6
 Raper, William Burkette TC C 1
 Rasnake, Marshall Everett TC N 2
 Ratcliff, Harold Boardman TC N 2
 Ratcliff, James Calvin TC C 1
 Rawley, Nelson Simpson TC N 4
 Rayburn, John Hale TC N 2
 Riverton, N. J.
 St. Albans, N. Y.
 Hingham, Mass.
 Pittsburgh, Pa.
 Ardmore, Pa.
 Arlington, Mass.
 Daytona Beach, Fla.
 Long Branch, N. J.
 Alameda, Calif.
 Morehouse, Mo.
 Baltimore, Md.
 Irvington, N. J.
 Fowler, Ind.
 Brooksville, Ky.
 Detroit, Mich.
 Washington, D. C.
 Clarksburg, W. Va.
 Mt. Vernon, N. Y.
 Lenoir, N. C.
 Afton, Ia.
 Palisade, Neb.
 Norfolk, Va.
 Miamisburg, Ohio
 Denver, Colo.
 Pittsford, Vt.
 Wilmor, Calif.
 Elkton, Md.
 Bradenton, Fla.
 Hickory, N. C.
 Newport News, Va.
 Cheverly, Md.
 Marion, Ohio
 New York, N. Y.
 Waterbury, Conn.
 Scarsdale, N. Y.
 Clarksburg, W. Va.
 Danville, Va.
 Newark, N. J.
 Norfolk, Va.
 Baltimore, Md.
 Washington, D. C.
 Pittston, Pa.
 Stamford, Conn.
 Quantico, Va.
 Birmingham, Ala.
 Lime Springs, Ia.
 Long Island, N. Y.
 Semo, N. C.
 Toledo, Ohio
 Knoxville, Tenn.
 Middleton, Ohio
 Mount Airy, N. C.
 Charlotte, N. C.
 Irvington, N. J.
 Middlesex, N. C.
 La Follette, Tenn.
 Indianapolis, Ind.
 Winston-Salem, N. C.
 Hyattsville, Md.
 Benton, Ky.

- Read, William Marsden, III TC N 6
 Reardin, Charles Richard, Jr. TC N 4
 Reece, Mark Holcomb TC N 3
 Reed, Ralph Alton TC N 4
 Reid, James Herbert, Jr. EC M 8
 Reid, Paul Richard EC N 3
 Remer, Bertram Robert EC N 3
 Resler, Duane Wilbur TC N 3
 Reynolds, Howard Dale TC N 2
 Reynolds, James Alonza TC N 4
 Reynolds, James Edward TC M 6
 Reynolds, Louis Francis TC N 2
 Rhyne, Gene Howard TC C 1
 Rice, William Elbert TC M 4
 Rice, William Kelley, Jr. TC N 1
 Richards, James Edgar TC N 4
 Richardson, Frank Perry TC M 4
 Richey, John Aubrey TC M 6
 Rickert, Robert Dale TC N 6
 Ridenhour, Ernest Winford TC N 1
 Ridgely, David Stewart EC M 4
 Rigsbee, Albert Vinson TC N 4
 Rigsbee, John Taylor TC N 1
 Riley, Joseph Paul TC N 6
 Riley, Russell Lee TC N 6
 Rina, Donald Robert TC N 3
 Ritchie, James Sutton TC N 1
 Rivers, Charles Guy EC N 6
 Roach, Francis L., TC N 4
 Roach, Henry Herman, Jr. TC N 2
 Roach, James Anthony TC N 4
 Roan, John Sylvester, Jr. TC M 6
 Roberts, Daniel Irvin TC N 1
 Roberts, Levi James TC N 5
 Roberts, Raymond Craerin TC N 3
 Roberts, William Edgar TC N 1
 Robin, Clayton, Jr. TC N 1
 Robins, Clifford Benjamin, Jr. EC M 4
 Robinson, Grover Cleveland TC N 1
 Robinson, Harry Delmer, Jr. EC C 7
 Robinson, James Arlington TC M 6
 Robinson, John Herbert TC N 1
 Robinson, Ted Hansen TC C 1
 Rocker, Charles Lamar, Jr. TC N 3
 Roden, Howard Melville TC N 2
 Roellke, Robert Louis TC C 2
 Rogers, Kale Eugene TC N 3
 Rogers, Ralph Peele, Jr. TC N 4
 Root, James William, Jr. TC N 4
 Rosenberg, Walter Daniel, Jr. TC N 1
 Ross, Donald Melvin TC N 1
 Ross, Walter Lee TC N 3
 Rossman, Marion Edgar TC N 3
 Rossion, Roland Broadus, Jr. TC N 2
 Rothwell, Robert Joseph TC N 1
 Rowe, Frank Hamett, Jr. EC N 6
 Rowe, Joshua Tillman EC N 3
 Roy, Eugene Hegezippe, Jr. TC N 2
 Rudy, Robert Lee TC N 4
 Ruehl, Theodore G. TC N 4
 Maywood, N. J.
 Fairlawn, N. J.
 Jonesville, N. C.
 Winston-Salem, N. C.
 Ethel, W. Va.
 Pasagoula, Miss.
 Miami Beach, Fla.
 Harrisburg, Pa.
 Fort Worth, Tex.
 Washington, Ga.
 Camden, N. J.
 Cranston, R. I.
 Atlanta, Ga.
 Duncan, Ariz.
 Germantown, Md.
 Louisville, Ky.
 Nashua, N. H.
 Leesburg, Fla.
 Tuckahoe, N. Y.
 Albemarle, N. C.
 Towson, Md.
 Durham, N. C.
 Durham, N. C.
 Tampa, Fla.
 Hamilton, Ohio
 Parish, N. Y.
 Charlottesville, Va.
 New Rochelle, N. Y.
 Chicago, Ill.
 Raleigh, N. C.
 Toledo, Ohio
 Pattison, Miss.
 Perryton, Tex.
 Norfolk, Va.
 Washington, D. C.
 Watertown, N. Y.
 White Plains, N. Y.
 Tanawanda, N. Y.
 Chattanooga, Tenn.
 Winchester, Va.
 Chattanooga, Tenn.
 Marshalltown, Ia.
 Shreveport, La.
 Lakeland, Fla.
 Baltimore, Md.
 Maplewood, N. J.
 Centralia, Ill.
 Durham, N. C.
 San Bruno, Calif.
 Norfolk, Va.
 Baltimore, Md.
 Baltimore, Md.
 Altoona, Pa.
 Washington, D. C.
 E. Boston, Mass.
 Washington, D. C.
 Baltimore, Md.
 Norfolk, Va.
 Osborn, Ohio
 Chicago, Ill.

- Rumbaugh, Frank Clayton EC N 7
 Russell, Donald, Jr. EC C 4
 Russell, George Thompson EC C 4
 Russell, Marvin Earl TC N 3
 Ruszkiewicz, Joseph Francis TC N 3
 Rutland, Richard Oliver, Jr. TC N 3
 Ryan, William John TC N 4
 Sager, Stanley Melvin TC C 2
 Sakas, Joseph TC N 1
 Salm, Delwin Andre TC N 4
 Salter, Wallace Bruce TC N 4
 Sanders, John Alexander TC N 4
 Sanders, Lee Samuel TC N 2
 Sanders, Tye Carter, Jr. TC N 1
 Sapp, Earle Walter, Jr. TC N 2
 Sapp, Ora William TC N 3
 Sattler, George Richard EC M 6
 Saturday, Harrison Kenneth EC N 6
 Sauceman, Wayland Harris TC N 1
 Sauerhoff, Robert Hamlin TC N 2
 Saunders, Llewellyn Corwin EC C 8
 Saunders, Robert Neal EC N 6
 Saunders, Stanley Stewart TC N 5
 Savage, Malcolm B. TC M 6
 Sax, Leonard Leward EC M 4
 Sayre, Clifford LeRoy TC N 1
 Scahill, Thomas J., Jr. TC N 3
 Scalf, John Henry TC N 1
 Scanlon, William John EC N 5
 Scheidt, Ralph Norman Stroh TC N 4
 Schenck, David TC N 1
 Schevers, Donald E. TC N 3
 Schilling, Harold George TC N 4
 Schlie, Roland Wendal EC N 3
 Schneider, James Gordon TC N 4
 Schneider, Ralph R. EC N 8
 Schnell, Charles Norman TC N 6
 Schoenlaub, Paul Wallis EC M 6
 Scholes, Med Hooper TC N 4
 Schott, Lawrence Frederick TC C 1
 Schriver, Roy Albert TC N 6
 Schroeder, Hobart Arthur EC N 6
 Schuler, Edwin Denby TC N 3
 Schuurman, Richard Bennett TC N 4
 Schwartz, Benjamin TC N 5
 Schwartz, Richard Daniel TC N 3
 Schweinfurth, Joseph David TC N 5
 Scoggins, Marvin Carr TC N 3
 Scollard, Robert Joseph TC N 4
 Scott, Charles William TC N 3
 Scott, Howard Blake TC C 1
 Scott, Kenneth McCoy EC N 5
 Scott, Robert Lorne TC N 1
 Scott, Walter, Jr. TC N 5
 Scott, William Edward, Jr. TC N 1
 Seabury, John Webster TC N 1
 Seabury, Robert Glen TC N 5
 Seay, James Lee TC C 1
 Sedwick, B. Frank TC N 6
 Seeley, Donn Elkington TC N 3
 Burgettstown, Pa.
 Hamden, Conn.
 Hamden, Conn.
 Straatton, Neb.
 Passaic, N. J.
 Eufula, Ala.
 Miami, Fla.
 Washington, D. C.
 Clairton, Pa.
 La Grange, Tex.
 Bartow, Ga.
 Vancouver, Wash.
 Lindsay, Calif.
 Atlanta, Ga.
 Washington, D. C.
 Augusta, Kan.
 Crestwood, N. J.
 Durham, N. C.
 Mohawk, Tenn.
 Severn, Md.
 Irvington, N. J.
 Medina, N. Y.
 High Point, N. C.
 Modeston, Va.
 New York, N. Y.
 Arlington, Va.
 Kansas City, Mo.
 Winston-Salem, N. C.
 Endicott, N. Y.
 Lincoln, Neb.
 Greensboro, N. C.
 Northbrook, Ill.
 Aberdeen, S. D.
 Elgin, Ill.
 Kanhahee, Ill.
 Queens Village, N. Y.
 Cranbury, N. J.
 Parris Island, S. C.
 Paris, Tenn.
 Mt. Clemens, Mich.
 Berwyn, Ill.
 Torrington, Conn.
 Florence, S. C.
 Midland Park, N. J.
 Omaha, Neb.
 Washington, D. C.
 Bellefontaine, Ohio
 Durham, N. C.
 White Plains, N. Y.
 Sioux City, Ia.
 Greensboro, N. C.
 Charlotte, N. C.
 Erie, Pa.
 Baltimore, Md.
 Brooklyn, N. Y.
 Guilford College, N. C.
 Pisgah, Ia.
 Spencer, N. C.
 Baltimore, Md.
 Scranton, Pa.

Seidner, Roger Benton	TC N 4	Windermere, Fla.
Selph, Frank Brembry	TC N 8	Chickasaw, Ala.
Semmes, Granville Martin	TC N 1	Memphis, Tenn.
Seneff, Smiley Howard	TC N 4	Odon, Ind.
Shaffer, Jack Boone	TC M 1	Amarillo, Tex.
Shapiro, Oscar William	TC C 1	Newark, N. J.
Sharkey, Edward Joseph	TC C 1	Arcadia, Fla.
Sharp, James Vance	TC N 6	Reidsville, N. C.
Sharpe, Claude Earl	TC N 4	Chappells, S. C.
Shaw, Charles Henry	TC N 3	Riverside, R. I.
Shaw, John William	TC N 5	Jacksonville, Fla.
Shea, Thomas William, Jr.	TC C 1	Portsmouth, Va.
Shehee, Ayles Berry, Jr.	TC N 1	Chattanooga, Tenn.
Sherertz, Robert Francis	TC N 1	Roanoke, Va.
Sherman, Alfred Jay	TC N 5	Harrisburg, Pa.
Sherrard, Randall Lee	TC N 1	Monahans, Tex.
Sherrill, Glenn David	TC N 3	Rutherfordton, N. C.
Shillander, Richard	TC N 4	Avalon, Calif.
Shockey, Paul Kenneth	TC N 1	Smithsburg, Md.
Shoemaker, Franklin Reynolds	TC N 1	Knoxville, Tenn.
Sholes, Charles Wilbur	TC N 4	Downey's Grove, Ill.
Shomaker, Frank Ashley	EC N 5	Richmond, Va.
Shoup, Jack R.	TC N 3	Lima, Ohio
Shuford, Richard Harvey	TC N 4	Hickory, N. C.
Shugar, Gilbert Lee	TC N 4	Tarboro, N. C.
Sibley, Donald Malcolm	TC N 2	Dormont, Pa.
Sides, Alfred Clarence	TC N 3	Cincinnati, Ohio
Siker, Ephraim S.	TC N 4	Port Chester, N. Y.
Sikes, Joseph Alvin	TC N 2	Dry Prong, La.
Siler, Gail Andrew	TC N 2	Wyandotte, Mich.
Sill, Maurice Lucien	TC N 2	Parkersburg, W. Va.
Silver, Norman Jay	TC C 6	New York, N. Y.
Silverbach, Lee Elmer	EC C 6	Paterson, N. J.
Simon, John B.	TC N 6	Newark, N. J.
Simons, Harold David	TC N 4	Columbia, S. C.
Simons, Henry A.	TC N 4	Jamaica, N. Y.
Simons, Joseph Thomas	TC N 5	Harvey, Ill.
Simpson, Ralph Glenn, Jr.	TC N 1	Winston-Salem, N. C.
Simpson, Zachary Arnold	TC C 5	Charlotte, N. C.
Sims, John Boland	TC M 6	Beaufort, S. C.
Singer, Howard Gilbert	TC N 1	Larchmont, N. Y.
Slider, Jack Wayne	TC N 2	Paden City, W. Va.
Sloan, James Andrew	TC M 1	Birmingham, Ala.
Small, Herbert Wesley	EC N 5	Charlotte, N. C.
Smatlik, Vincent	TC N 2	Chicago, Ill.
Smith, Burdette Rex	TC N 1	Casper, Wyo.
Smith, Charles Gordon	TC N 1	Burlington, N. C.
Smith, Curtis Cullen, Jr.	TC M 4	Waco, Tex.
Smith, George Basil	TC N 3	Winfield, Kan.
Smith, Ben	TC N 3	Folsom, W. Va.
Smith, Gordon Laidlaw	TC N 1	Chattanooga, Tenn.
Smith, James Campbell	TC N 2	Washington, D. C.
Smith, Kenneth McLean, Jr.	TC N 3	Milwaukee, Wis.
Smith, Lee Amon	TC C 1	Norfolk, Va.
Smith, Melvin Wilmer	TC N 3	Edgewater, Md.
Smith, Raymond Alfred	TC N 6	Mt. Airy, N. C.
Smith, Rex Elmer, Jr.	EC M 4	Ford City, Pa.
Smith, Robert Samuel	TC N 5	Merchantville, N. J.
Smith, Whitefoord, Jr.	TC C 6	Charlotte, N. C.
Smith, William Harold	EC M 4	Woodmont, Conn.

- Smith, William Vincent TC N 2
 Smolen, Harry Anthony EC N 3
 Smurthwaite, Paul Malcolm, Jr. EC N 6
 Snedden, Richard Dean TC N 3
 Snelling, Richard Jackson, Jr. TC N 2
 Snyder, William Marion, Jr. TC N 4
 Solliday, Richard Kenneth TC N 1
 Soma, Milton Eugene TC N 3
 Somers, Robert James TC C 1
 Somerville, John Henry TC N 6
 Sorensen, William Newton TC N 3
 Sousa, Joseph Arthur EC M 4
 Southard, Warren Roscoe TC N 3
 Spandorfer, Lester Melvern EC N 5
 Spann, Willis Lee TC N 4
 Spargur, Lloyd Eugene TC N 3
 Spears, Marion Lee TC C 1
 Spears, Marshall Turner, Jr. TC N 1
 Spencer, Robert Frank TC C 1
 Sperandio, Joseph Lewis TC N 4
 Sperow, William Rodgers TC N 3
 Spevak, Samuel Morris EC M 4
 Spillers, James Parker TC M 1
 Spohn, Hal Clayton TC N 3
 Stackable, William Robert TC N 6
 Stalhammer, Robert Carl TC N 4
 Stall, Edward H. TC N 4
 Stall, Kenneth Hunter TC N 1
 Stalvey, Delano K., Jr. TC N 4
 Stancin, Edwin E. TC M 4
 Standish, Livingston Miles TC N 3
 Stanfield, Henry Lawrence TC N 3
 Stanley, Arleigh Childress TC N 4
 Starbuck, Donald Webster TC N 3
 Stark, Alvin TC N 6
 Starkey, Dean Conwell TC N 3
 Starkey, Wayne Hampton TC N 2
 Stebing, Donald Eugene TC N 3
 Steele, Albert Johnston EC N 6
 Steele, John William TC N 3
 Stegman, Kenneth Francis TC N 4
 Stein, Richard Paul TC N 4
 Steinert, Lilbourn Neith TC N 3
 Steinman, James P. TC M 5
 Stephanz, Paul William TC C 1
 Stephens, Robert Russel TC N 3
 Stephens, Samuel Statham TC N 1
 Stevenson, Edward Ward TC N 4
 Stinson, James Albrecht TC N 2
 Stivers, Larry James TC N 3
 Stockslager, Edwin Stevens, Jr. EC N 5
 Stockstrom, Louis, III TC C 4
 Stogsdill, Willis Wordsworth TC N 4
 Stone, Albert Leppo TC C 1
 Stone, Jack Mink TC M 4
 Stone, Robert Lee, Jr. EC N 6
 Stophel, John Carroll TC N 1
 Storey, Judd Robert TC N 3
 Storrs, Phil TC N 5
 Stott, Warren Walter TC N 4
 Asheville, N. C.
 Whiting, Ind.
 Coatesville, Pa.
 Granger, Iowa
 Dublin, Ga.
 Palmetto, Fla.
 Norristown, Pa.
 Ames, Iowa
 Louisville, Ky.
 Cumberland, Md.
 Lincoln, Neb.
 Wakefield, Mass.
 Wichita, Kan.
 Norfolk, Va.
 Temple, Okla.
 Shenandoah, Ia.
 Lexington, N. C.
 Durham, N. C.
 Spencer, N. C.
 Glen Carbon, Ill.
 Nevada, Ia.
 Jacksonville, Fla.
 Monroe, Pa.
 Kearney, Neb.
 Chicago, Ill.
 Bridgeport, Conn.
 Greenville, S. C.
 Detroit, Mich.
 Conway, S. C.
 Chicago, Ill.
 St. Petersburg, Fla.
 St. Petersburg, Fla.
 Tyler, Tex.
 Jacksonville, Fla.
 Baltimore, Md.
 Kingman, Kan.
 Hampton, Va.
 Auburn, Ind.
 Pittsburgh, Pa.
 Marysville, Ohio
 Chicago, Ill.
 New Albany, Ind.
 Wichita, Kan.
 Ursa, Ill.
 Milwaukee, Wis.
 Whitewater, Kan.
 Gladys, Va.
 Craigsville, Va.
 St. Petersburg, Fla.
 Des Moines, Ia.
 Westfield, N. J.
 Clayton, Mo.
 Bloomington, Ind.
 Lincolnton, N. C.
 Corbin, Ky.
 Durham, N. C.
 Bristol, Tenn.
 De Kalb, Ill.
 Cincinnati, Ohio
 Yorktown, Va.

Stottlemeyer, Paul Clinton TC N 3
 Stover, William Page EC C 8
 Stowers, Henry Egbert, Jr. TC M 1
 Strahan, John Franklin TC N 4
 Strain, Delbert Earl TC N 3
 Straith, William Mott TC C 1
 Street, Walter Newbill, Jr. TC N 6
 Stribbling, Charles Sloan TC M 6
 Strickman, Arthur Edwin TC N 6
 Stroupe, Connor Bartlette TC N 5
 Stroupe, Robert Edwin EC N 8
 Stroupe, Thomas Clinton TC C 4
 Strzyzewski, Edward James, Jr. TC N 3
 Stubbins, Robert Lacey TC N 2
 Stull, Chester James, Jr. EC M 8
 Styron, William Clark, Jr. TC M 6
 Suddard, Neal Arnold TC C 1
 Suggs, Jacob Leroy, Jr. EC N 8
 Suhling, Edward Colhoun EC M 6
 Summer, Lloyd Langston, Jr. TC N 4
 Sunderland, Glenn Wilce TC N 3
 Sunderland, Ralph Kenneth TC N 4
 Suttle, Michael, Jr. TC C 1
 Sutton, Harry Wagner TC N 1
 Sutton, Howard Mitchell TC N 1
 Sutton, John Marshall TC C 4
 Svenson, James TC N 1
 Swanson, Arnold Arthor TC C 7
 Swaringen, Charles Tillett, Jr. EC N 6
 Swicegood, Roger Mason TC N 2
 Swindell, Herbert A. EC N 8
 Switzer, Elwood Evritt TC N 1
 Sydnor, Charles Sackett, Jr. TC C 2
 Sykes, Andrew Jardine TC M 3
 Sylvester, Michael TC C 1
 Tailer, Peter Lorillard EC C 5
 Tallant, Daniel Hoge TC N 3
 Talton, Richard Cullen TC N 3
 Tanner, Stephen Odell TC N 5
 Taplin, Winn Lowell EC M 4
 Tate, Joseph Ishmael TC M 6
 Tavernier, Harold TC N 3
 Taylor, Charlie Ashley TC C 1
 Taylor, Carson Elroy TC N 3
 Taylor, David Kerr TC C 1
 Taylor, Marlin R. TC N 5
 Taylor, Yancey M. TC N 4
 Teabeaut, Thomas Allen EC C 4
 Templeman, Gordon Frank TC N 3
 Templeton, James Huie TC N 2
 Terry, Charles Strong TC C 6
 Tewksbury, John Sargent EC M 4
 Thomas, Frank A., Jr. EC M 5
 Thomas, George S., Jr. TC C 1
 Thomas, Marty Earl TC C 1
 Thomas, Paul Bert TC N 2
 Thomas, Ralph Leslie TC N 2
 Thomas, Robert Joe TC M 4
 Thomas, Robert Lee TC N 2
 Thomas, Robert Leo TC N 1
 Hagerstown, Md.
 Charlotte, N. C.
 Brevard, N. C.
 Catonsville, Md.
 Aurora, Mo.
 Detroit, Mich.
 Richmond, Va.
 Habersham, Ga.
 Laurence, N. Y.
 Mt. Holly, N. C.
 High Point, N. C.
 Charlotte, N. C.
 Grand Rapids, Mich.
 Crisfield, Md.
 Roanoke, Va.
 Newport News, Va.
 Newark, Del.
 Durham, N. C.
 Lynchburg, Va.
 Cherryville, N. C.
 Newton, Ill.
 Dearborn, Mo.
 Newport News, Va.
 Baltimore, Md.
 Roanoke, Va.
 Russell, Ky.
 Detroit, Mich.
 Wilmar, Calif.
 Greensboro, N. C.
 Summerville, S. C.
 Durham, N. C.
 Defiance, Ohio
 Durham, N. C.
 Chicago, Ill.
 Paulsboro, N. J.
 Norfolk, Va.
 Bradenton, Fla.
 Daytona Beach, Fla.
 Minneapolis, Minn.
 Bennington, Vt.
 Lexington, N. C.
 Plandome, N. Y.
 Fairmont, N. C.
 Nashville, Tenn.
 Oxford, N. C.
 Independence, Kan.
 Mountain Home, Tenn.
 Fayetteville, N. C.
 Evanston, Ill.
 Union Grove, N. C.
 Laurel, Miss.
 Watertown, Mass.
 Uniontown, Ala.
 Stanfield, N. C.
 Mount Airy, N. C.
 Bellmore, N. Y.
 Tampa, Fla.
 Augusta, Ga.
 Point Pleasant, W. Va.
 Evansville, Ind.

- Thompson, Charles Welland TC M 4
 Thompson, Donald Reece TC N 3
 Thompson, Douglas Brett TC N 1
 Thompson, Harold Britt TC C 1
 Thompson, James Gilliam EC N 5
 Thompson, Joseph Walter TC N 2
 Thompson, Julian Edward TC N 4
 Thompson, Lawrence Charles TC M 4
 Thompson, Leonard Howard TC N 1
 Thompson, Walter Lowry TC N 5
 Thompson, William Wallace TC N 2
 Thompson, William Wardlaw TC M 4
 Thorfinnson, Stanley Theodore TC N 3
 Thornton, Foxhall Parker, Jr. TC C 1
 Thorup, Kent Davis TC M 4
 Throckmorton, Francis, Jr. TC M 1
 Thrower, Wendell Burton TC C 4
 Tichenor, Charles Beckham TC N 4
 Tiderman, Otto Darby TC N 3
 Tierno, Anthony Joseph TC N 4
 Tilden, Ted B. TC M 4
 Tinsley, James Wellen TC N 3
 Titman, Theodore David TC N 3
 Titus, Philip Ellsworth TC N 3
 Tolle, Howard Kennard TC N 3
 Tolson, Walter James TC N 1
 Tomlinson, Carroll Finley TC N 3
 Tompkins, James K. TC C 7
 Tompkins, William Richie TC C 2
 Torgerson, Torger Edward TC N 3
 Torkildsen, Robert Allan TC N 2
 Torrey, Jay Kenneth TC M 4
 Tracy, Marvin Grant TC N 3
 Trainum, Carlton Dudley TC N 1
 Tredwell, John TC N 6
 Treme, Ferris TC N 3
 Trexel, Charles Austin TC N 2
 Troxler, Richard Monroe TC N 1
 Trumbull, Roy John EC N 3
 Tubbs, Henry Willard TC M 4
 Tucker, James Arnold TC N 4
 Tully, William Franklin TC N 2
 Turner, Heywood Axtell TC N 2
 Turpin, Charles Albert TC M 4
 Tuttle, James Gray TC C 6
 Uhl, Joseph Louis TC N 3
 Underwood, Carl Haden TC N 1
 Unruh, James Walker TC N 2
 Valenti, Gino Salvador TC N 3
 VanAntwerp, Daniel Janse TC N 8
 VanBlarcum, Alfred Allen, Jr. TC N 1
 Vandenend, Hilbert TC N 4
 Van Leer, Blake Wayne EC N 7
 Van Leer, Ira Isaac TC M 6
 Van Schoik, Dickson Moore TC N 3
 Varner, Leonard William TC N 4
 Vaughan, Eston Gale TC N 1
 Vaughan, John Willis TC N 1
 Vaughan, Lynwood Bernard TC C 1
 Daytona Beach, Fla.
 Kingsport, Tenn.
 Greenwich, Conn.
 Hallsboro, N. C.
 Greensboro, N. C.
 Kermit, W. Va.
 Cowden, Ill.
 Derby, Vt.
 Trenton, N. J.
 Bellevue, Pa.
 Charleston, S. C.
 Virginia Beach, Va.
 Lincoln, Neb.
 Alexandria, Va.
 Chevy Chase, Md.
 Fairview, W. Va.
 Ridgeville, S. C.
 Indianapolis, Ind.
 Muncie, Kansas
 Brooklyn, N. Y.
 Glen Ellyn, Ill.
 Huntington, W. Va.
 Baltimore, Md.
 Wellington, Kan.
 Dayton, Ohio
 Washington, D. C.
 Durham, N. C.
 Johnson City, N. Y.
 Richmond, Va.
 Duluth, Minn.
 Huntington, N. Y.
 Wilmette, Ill.
 Danville, Ohio
 Richmond, Va.
 Ridgewood, N. J.
 Elton, La.
 Baltimore, Md.
 Leaksville, N. C.
 Milwaukee, Wisc.
 Monmouth, Ill.
 Winterset, Ia.
 Charleston, W. Va.
 Tampa, Fla.
 Rome, Ga.
 Raleigh, N. C.
 Columbus, Ohio
 Mount Holly, N. C.
 Richmond, Va.
 University Park, Md.
 Mobile, Ala.
 Canton, Ohio
 Oak Park, Ill.
 Washington, D. C.
 New York, N. Y.
 Columbus, Ohio
 Holly Hill, S. C.
 Elmira, W. Va.
 Hampton, Va.
 Sumter, S. C.

- Veals, Ralph Langdon TC N 1
 Verlander, Joseph Michael TC N 2
 Vickers, Lawrence Otis TC C 4
 Viehmeyer, George Frederick TC N 3
 Villanueva, Charles Edward TC N 4
 Vincent, Kenneth Edwin TC N 3
 Vincett, Ernest Marion TC N 1
 Vining, Ralph Edward, Jr. TC N 1
 Virgin, Don Granville TC N 1
 Vogel, John Edwin, Jr. TC N 3
 Vogel, John Leslie TC C 2
 Vorhes, Carl Edwin TC N 3
 Wade, Henry O. TC N 4
 Wadsworth, John Henry TC N 2
 Wagner, Arthur Wallace TC N 4
 Wagner, Michael Joseph TC N 3
 Wagner, Robert Baer TC N 1
 Walker, Gordon Rexal EC N 5
 Walker, I. C. TC C 6
 Walker, John Cusworth TC C 1
 Walker, John Garnett TC N 4
 Walker, Paul Creasy TC C 1
 Wall, Junius French TC N 1
 Walpole, Fred Cornelius TC N 4
 Walter, Robert Wheaton TC M 6
 Walters, Robert George TC N 3
 Walters, Wallace Lee TC C 1
 Walton, Loring Baker, Jr. TC C 1
 Ward, Charles Theodore TC N 1
 Ward, Frank Fordham TC N 6
 Ward, John Amburn TC C 3
 Warner, John Robinson TC C 5
 Warner, Tim Goode TC C 4
 Warren, Errol Jordan TC N 2
 Warren, Joseph Benjamin TC N 5
 Warren, Julian Marion TC C 1
 Warren, Thomas Byrd EC N 3
 Waterman, Chester Baldwin TC N 3
 Waters, Joe Frazier TC N 6
 Watkins, James Sutton, Jr. TC N 6
 Watkins, John David TC N 1
 Watkins, William Forbes, Jr. TC N 4
 Watson, Frank Yandle TC N 4
 Watson, George Wesley TC N 4
 Watson, Henry Brock TC C 1
 Watson, Herbert Garrett TC N 1
 Watson, James Edward TC N 2
 Watson, Lucien W., Jr. TC M 5
 Watson, William Wood TC N 6
 Watt, William Vance TC N 5
 Watts, Robert Johnson TC N 6
 Way, Charles Burr TC C 2
 Weatherly, Carl Holmes TC C 4
 Weaver, Gilbert Earl TC M 6
 Weaver, Robert Lee TC N 6
 Weber, Richard Alexander TC N 4
 Wedding, Jesse Conrad TC N 1
 Weeks, Joe Richard TC N 5
 Weil, Kenneth Louis TC C 1
 Carney's Point, N. J.
 Richmond, Va.
 Miami, Fla.
 Baltimore, Md.
 Orange, N. J.
 Bloomfield, N. J.
 Graceville, Fla.
 Baltimore, Md.
 Ashland, Ky.
 Chicago, Ill.
 Louisville, Ky.
 Marshalltown, Ia.
 Morehead City, N. C.
 Montgomery, Ala.
 Belleville, Ill.
 Baltimore, Md.
 Baltimore, Md.
 Spindale, N. C.
 Woodlawn, Ga.
 Chevy Chase, Md.
 Marion, Va.
 Winston-Salem, N. C.
 Chattanooga, Tenn.
 Atwood, Tenn.
 Port Washington, N. Y.
 Chicago, Ill.
 Rocky Mount, N. C.
 Durham, N. C.
 Chattanooga, Tenn.
 Montclair, N. J.
 Walkertown, N. C.
 Durham, N. C.
 Greensboro, N. C.
 Rocky Mount, N. C.
 Lenoir, N. C.
 Spring Hope, N. C.
 Chevy Chase, Md.
 Parkersburg, W. Va.
 Johnstown, Pa.
 Forsyth, Ga.
 Rocky Mount, N. C.
 Farmville, Va.
 Charlotte, N. C.
 Lincoln, Neb.
 Prospectville, Pa.
 Los Angeles, Calif.
 Augusta, Kan.
 Marianna, Fla.
 Eastham, Mass.
 Thomasville, Ga.
 Louisville, Ky.
 Waynesville, N. C.
 Leaksville, N. C.
 Statesville, N. C.
 Drexel Hill, Pa.
 Lyndhurst, N. J.
 Raleigh, N. C.
 Clarksdale, Miss.
 New York, N. Y.

- Weinberg, John David TC N 1
 Weirauch, Roland EC N 3
 Welch, Elbert Sylvester TC N 5
 Welch, Frank Henry, Jr. TC N 1
 Wells, David Allen TC N 6
 Wells, John David TC N 3
 Wells, John Harrison TC N 1
 Wells, John Murrell TC C 1
 Wells, Joseph Fisher TC C 1
 Wells, Stewart Roney TC C 1
 Wells, William Charles, Jr. TC N 4
 Wells, William Eston TC N 3
 West, Edwin Scott TC N 1
 West, Sidney TC C 1
 Westphall, Howard Arden TC M 4
 Wheatley, William Howard TC N 4
 Whisnant, Louis Rodney TC M 6
 Whitaker, O'Kelley TC C 1
 White, Beaman Twitty TC C 1
 White, Glenn Marshall TC N 4
 White, Hassel Arhart TC N 1
 White, John Mercer TC N 5
 White, Richard Marion EC N 3
 Whitfield, Thomas Japheth, III TC N 1
 Whitley, Joseph McCullough EC N 3
 Whitlock, James Dale TC N 3
 Whitney, John Butler TC M 4
 Whitson, James Anthony TC N 4
 Whyte, Donald Leslie TC N 6
 Wicker, Max William TC N 3
 Wickstrom, Ralph Lee TC N 3
 Wideman, William Davis EC N 8
 Wight, Fred Cary, TC N 1
 Wilbur, Robert Lynch TC C 3
 Wilhoite, Gene Milton TC N 3
 Wilkie, David Blaine TC N 3
 Wilkins, Clyde, Jr. TC M 4
 Wilkinson, Buddy LaVerne TC N 4
 Wilkinson, Kenneth Lee EC N 7
 Willett, Robert Walter TC N 5
 Williams, Arthur Joseph TC N 3
 Williams, Bill Rowney TC C 1
 Williams, Daniel McGregor TC C 2
 Williams, Earlwood Robbins TC N 2
 Williams, Edgar Donald, Jr. EC N 6
 Williams, Eugene Ward TC N 3
 Williams, Harvey McDonald TC N 1
 Williams, James Oscar TC N 4
 Williams, John Kerr EC N 8
 Williams, Lloyd Lorenzo TC C 1
 Williams, Paul Francis TC N 3
 Williams, Reid Claude TC N 7
 Williams, Si Julian EC M 7
 Williams, Wade Hampton TC N 6
 Williams, William S. EC M 6
 Williamson, Cecil Floyd TC N 3
 Williamson, Daniel Lester, Jr. TC N 3
 Williamson, John Samuel TC M 5
 Williamson, Max LaVern TC N 3
 Mt. Vernon, N. Y.
 Liberty Center, Ohio
 Bessemer, Ala.
 Manchester, N. H.
 Hapeville, Ga.
 Elmdale, Kan.
 Greensboro, Fla.
 Hapeville, Ga.
 Cheltenham, Pa.
 North East, Md.
 Delanco, N. J.
 St. Petersburg, Fla.
 Windom, Tex.
 Washington, D. C.
 Woodstock, Ill.
 Chestertown, Md.
 Lenoir, N. C.
 Durham, N. C.
 Raleigh, N. C.
 Bristow, Okla.
 Mayodan, N. C.
 Richmond, Va.
 Norfolk, Va.
 Suffolk, Va.
 Oakmont, Pa.
 Dallas, Tex.
 Quantico, Va.
 Chester, Ill.
 Princeton, N. J.
 Aberdeen, N. C.
 Sioux City, Iowa
 Haddonfield, N. J.
 Sanford, Fla.
 Durham, N. C.
 Chattanooga, Tenn.
 Manchester, Conn.
 Atlanta, Ga.
 Clinton, Ill.
 Pocomoke City, Md.
 New York, N. J.
 Washington, D. C.
 Charlotte, N. C.
 Durham, N. C.
 Norfolk, Va.
 Durham, N. C.
 Cincinnati, Ohio
 Norfolk, Va.
 Mullins, S. C.
 Charlotte, N. C.
 Jacksonville, Fla.
 Tampa, Fla.
 Fallston, N. C.
 Evanston, Ill.
 Charlotte, N. C.
 Lynchburg, Va.
 Cerro Cordo, N. C.
 Wilmington, N. C.
 Hamlet, N. C.
 Creston, Ia.

Willing, George Clifford TC N 3	Harvey, Ill.
Willis, Joseph William EC N 6	Ft. Lauderdale, Fla.
Willis, William Newton, Jr. TC N 3	Smithville, Tex.
Wills, Rex, II TC N 5	Hilo, Hawaii
Wilson, Charles Frederick TC N 4	Florence, Ala.
Wilson, Jack Leonard TC N 4	Perry, Okla.
Wilson, James Ernest TC N 3	Cumberland, Md.
Wilson, James Robert TC C 1	Greenville, S. C.
Wilson, John Winkle TC N 3	Chattanooga, Tenn.
Wilson, Joseph Richard Hoyle EC N 5	Atlanta, Ga.
Wilson, Robert Hayes TC N 1	Los Angeles, Calif.
Windham, Theron Johnson TC N 6	Columbus, Ga.
Wingfield, Robert Terrell TC N 6	Lynchburg, Va.
Wisner, Richard Cummings TC N 3	Benedict, Neb.
Wittenberg, James Atkins TC N 5	Memphis, Tenn.
Wolfe, Daniel Howard TC M 6	Charlotte, N. C.
Wolfe, Joseph Garland TC M 6	Greensboro, N. C.
Wolfe, William Raymond TC N 6	Verona, Pa.
Wolff, Robert Stanley TC N 6	Rhodesdale, Md.
Wolff, Thomas Conrad, Jr. TC N 7	Baltimore, Md.
Wolfley, Edward Luckey, Jr. TC N 3	Evansville, Ind.
Womack, James Dabney TC N 1	Johnson City, Tenn.
Womack, William Graham TC C 1	Sanford, N. C.
Wood, Chester Clement TC N 4	Bridgewater, Mass.
Wood, George Wilburn EC M 6	Overland, Mo.
Wood, Paul Andrew EC M 4	Gary, Ind.
Woodbridge, E. Byron TC N 6	Tamaqua, Pa.
Woodrow, Gerald James TC N 4	Chicago, Ill.
Woodward, Willys Lee TC N 3	Fulton, N. Y.
Woolley, Philip Monroe TC N 3	Southern Pines, N. C.
Worster, Lyle Henry TC M 3	Gardner, Me.
Wright, Clyde Leonard TC N 2	Richmond, Va.
Wright, John Nickels TC C 1	Spartanburg, S. C.
Wright, William Albert, Jr. TC C 4	Youngstown, Ohio
Wuchte, Richard Ernest TC N 1	Lebanon, Pa.
Wyche, Malvern Hill EC N 6	Emporia, Va.
Wyeth, Marion Sims, Jr. TC N 1	Palm Beach, Fla.
Yard, Chester Arthur TC N 6	Webster Groves, Mo.
Yautz, George Steven EC N 8	New York, N. Y.
Yegge, Lawrence Raymond TC N 3	Boone, Ia.
Yochum, Joseph Karl TC N 3	Sinking Spring, Pa.
York, Charles Irving TC N 3	Washington, D. C.
Young, Edward Eugene TC N 1	Lexington, Ky.
Young, Julius Osborne, Jr. TC M 6	Winston-Salem, N. C.
Younger, Edward Francis, Jr. TC N 2	Severn, Md.
Yount, Arthur White TC C 4	Statesville, N. C.
Yount, Paul Wesley, Jr. TC N 4	Charlotte, N. C.
Zachary, William Clarence TC M 4	Macon, Ga.
Zakrzewski, Thomas Francis TC N 3	Buffalo, N. Y.
Zellmer, Milton Robert TC N 3	Chicago, Ill.
Zimmerman, Jacob Shelly TC N 5	Marshall, N. C.
Zion, Robert William EC M 8	Philadelphia, Pa.
Zitomer, Joseph TC N 3	Washington, D. C.
Zoeller, Robert Royce EC M 4	Milwaukee, Wis.
Zukowski, Alfred Stanley TC N 3	Bayonne, N. J.
Zultner, Richard Ernst TC N 3	Chicago, Ill.
Zumberge, James Herbert TC M 6	Minneapolis, Minn.

CIVILIAN UNDERGRADUATE MEN ENROLLED IN THE WOMAN'S COLLEGE

September-January Semester, 1944-45

<i>Name</i>	<i>Semesters Completed</i>	<i>Home Address</i>
Barone, Nathaniel L., Jr.	4	Jamestown, N. Y.
Bell, William Seaman	7	Washington, D. C.
Brengle, George Robert	7	Washington, D. C.
Brooks, Charles Milliken	7	Portland, Me.
Carroll, Kenneth L.	4	Easton, Md.
Crane, Frank	5	Detroit, Mich.
Davis, George Thomas	7	Wilson, N. C.
Easterling, John G.	4	Rocky Mount, N. C.
Essey, Albert John	7	Maxton, N. C.
Ford, Edgar A.	2	Durham, N. C.
Hornaday, Jack	7	Henderson, N. C.
Jordan, G. Ray, Jr.	4	Charlotte, N. C.
McDougald, John A.	5	Bayside, N. Y.
Murray, Jerry Dwight	4	Cramerton, N. C.
Nash, Ralph L.	6	St. Petersburg, Fla.
Nease, Edgar H.	5	Greensboro, N. C.
Onken, Warren H.	6	Brooklyn, N. Y.
Pachuki, Benjamin Joseph	5	Hamden, Conn.
Pate, Thomas Waldo	7	Erwin, N. C.
Scott, Richard Hendrickson	6	Norfolk, Va.
Sink, Fred O.	3	Lexington, N. C.
Smith, H. Kenneth	7	Winston-Salem, N. C.
Stein, James Richard	5	Detroit, Mich.
Swartzbaugh, Jason Blackford	4	Toledo, Ohio
Washer, Robert Ralph	5	Scranton, Pa.
Wells, William Miles, Jr.	5	Wilson, N. C.
Williams, Harry Eugene	4	Richmond, Ind.
Willoughby, Robert E.	5	Detroit, Mich.

February-May Semester, 1945

Barone, Nathaniel L., Jr.	5	Jamestown, N. Y.
Bell, William Seaman	7	Washington, D. C.
Brengle, George Robert	8	Washington, D. C.
Brooks, Charles Milliken	8	Portland, Me.
Carroll, Kenneth L.	5	Easton, Md.
Crane, Frank	7	Detroit, Mich.
Davis, George Thomas	7	Wilson, N. C.
Drewry, William Shepherd, Jr.	1	Drexel Hill, Pa.
Essey, Albert John	7	Maxton, N. C.
Ford, Edgar A.	2	Durham, N. C.
George, Leonard Beattie, Jr.	7	Staton Island, N. Y.
Hillegass, Arthur Charles, Jr.	5	Buenos Aires, Arg.
Huffman, Paul D.	4	Thomasville, N. C.
Jordan, G. Ray, Jr.	5	Charlotte, N. C.
Kibler, Robert Franklin	7	Durham, N. C.
McDougals, John A.	5	Bayside, N. Y.
Markham, Charles Buchanan	6	Durham, N. C.
Murray, Jerry Dwight	5	Cramerton, N. C.
Nash, Ralph L.	7	St. Petersburg, Fla.
Nease, Edgar H.	7	Greensboro, N. C.
Onken, Warren H.	7	Brooklyn, N. Y.
Pachuki, Benjamin Joseph	6	Hamden, Conn.
Scott, Richard Hendrickson	7	Norfolk, Va.
Sink, Fred O.	4	Lexington, N. C.

<i>Name</i>	<i>Semesters Completed</i>	<i>Home Address</i>
Starr, Maurice Kenneth	7	Baltimore, Md.
Stein, James Richard	6	Detroit, Mich.
Swartzbaugh, Jason Blackford	5	Toledo, Ohio
Vickers, Lawrence Otis	5	Miami, Fla.
Warner, John Robinson	6	Walkersville, Md.
Washer, Robert Ralph	6	Scranton, Pa.
Wells, William Miles, Jr.	6	Wilson, N. C.
Willoughby, Robert Earl	6	Detroit, Mich.

THE WOMAN'S COLLEGE
FRESHMAN CLASS

Adams, Susan Parish	Atlanta, Ga.
Aiken, Herminia Ursula	Chevy Chase, Md.
Allen, Joanne	Kingsport, Tenn.
Amsbary, Susan	Asheville, N. C.
Anderson, Marcia	Toledo, Ohio
Angevine, Joan Anderson	Rochester, N. Y.
Armistead, Mary Jean	Roanoke, Va.
Armstrong, Catharine Moss	Hot Springs, Ark.
Ashcraft, Mary Lee	Louisville, Ky.
Autry, Faye Isobel	Fayetteville, N. C.
Bailey, Dorothy Ann	Jacksonville, Fla.
Bailey, Marie Therese	Durham, N. C.
Baird, Ann Logan	Roanoke, Va.
Baldwin, Ivy Eleanor	Cranford, N. J.
Barker, Patricia Anne	Wilkinsburg, Pa.
Beane, Carolyn Phyllis	Royal Oak, Mich.
Beck, Helen Muse	Durham, N. C.
Bell, Sally	Scarsdale, N. Y.
Bercovitz, Mary C.	Hillsboro, N. H.
Bice, Doris Jean	Haines City, Fla.
Bird, Frances Marie	Durham, N. C.
Black, Patricia Carolyn	Charleston, W. Va.
Blackard, Edith Warren,	Chattanooga, Tenn.
Bliss, Myrtle Ann	Dothan, Ala.
Bluhm, Frances	Greensboro, N. C.
Bolick, Raenelle	Conover, N. C.
Borden, Anna Miller	Concord, Mass.
Bowen, Gloria Lois	Daytona Beach, Fla.
Boyd, Emily Earle	Durham, N. C.
Boyer, Nancy Lee	Toledo, Ohio
Brantley, Louise Noell	Durham, N. C.
Braynard, Nancy N.	Glen Cove, N. Y.
Brogan, Betty Jean	Atlanta, Ga.
Brown, Mary Louisa	Asheville, N. C.
Bruce, Katherine Jane	Palatka, Fla.
Bryson, Lillian Mary	Durham, N. C.
Bullock, Iula Jane	Durham, N. C.
Bunn, Carolyn Cooper	Dayton, Ohio
Cahn, Helene	Bishopville, S. C.
Cameron, Elizabeth Blanche	Durham, N. C.
Camp, Emily Moorshead	Lansdowne, Pa.
Camphausen, Janet	Wilmette, Ill.
Carman, Carolyn Beers	Jamaica, N. Y.
Carrington, Jane Watkins	Oxford, N. C.
Carter, Margaret	Fostoria, Ohio
Cassels, Kitty	Ellenton, S. C.

- Caswell, Eugenia Ann
 Caveness, Doris Marie
 Caveness, Marjorie Lois
 Clardy, Eleanor Westbrook
 Clark, Myra Mozelle
 Cobb, Mary Virginia
 Cochran, True Darlene
 Coldwell, Marjorie J.
 Colvin, Margaret T.
 Cooke, Virginia Sylvania
 Couch, Kathleen Virginia
 Crum, Mary Mason
 Cuesta, Noretta Marie
 Culbreth, Betty Jean
 Davis, Julia Lavinia
 Deyton, Edith Ward
 DiPaolo, Naida Amelita
 Divine, Mary Hills
 Dritt, Mary Jane
 Duke, Jane
 Duncan, Mary Anne
 Dungan, Leah
 Dunn, Sara Frances
 Dunson, Dorothy Lee
 Earp, Laura Aileen
 Ellis, Frances Huguenin
 Evans, Clara
 Finkelstein, Shirley B.
 Fonvielle, Betsy Keaton
 Forehand, Ida Margaret
 Fowler, Maude
 Fox, Marian Clinch
 Franklin, Helen Bryson
 Frey, Marjorie
 Garrett, Bertha Hicks
 Glass, Elizabeth Chadwick
 Godwin, Evelyn Joyce
 Gordon, Helen Elizabeth
 Graff, Martha Edith
 Gurney, Louise Cummings
 Gwaltney, Betty Jane
 Haines, Marilyn Jean
 Harbour, Viola Marie
 Harris, June Ruth
 Hathaway, Betty Jane
 Henderson, Ganelle
 Hicks, Margaret Telfair
 Hodgson, Nancy Dunn
 Howe, Ethel Wheeler
 Huckabee, Josephine
 Huffman, Ruth J.
 Hursey, Beryl June
 Hutzler, Anne Jacqueline
 Jackson, Elizabeth Claire
 Jacobs, Rose Anne
 James, Lois Elizabeth
 Johnson, Martha Evelyn
 Jordan, Philis Ellen
 Keel, Shirley E.
- Orlando, Fla.
 Greensboro, N. C.
 Raleigh, N. C.
 Pittsburgh, Pa.
 Durham, N. C.
 Statesboro, Ga.
 Fairfield, Conn.
 Fall River, Mass.
 Pleasant Ridge, Mich.
 Durham, N. C.
 Durham, N. C.
 Durham, N. C.
 Tampa, Fla.
 Raleigh, N. C.
 Winston-Salem, N. C.
 Raleigh, N. C.
 Collingswood, N. J.
 Kingsport, Tenn.
 Atlanta, Ga.
 Tampa, Fla.
 Greenville, N. C.
 Mobile, Ala.
 Tulsa, Okla.
 LaGrange, Ga.
 Durham, N. C.
 Macon, Ga.
 New Britain, Conn.
 Wilmington, N. C.
 Wilmington, N. C.
 Albany, Ga.
 Tampa, Fla.
 Bradenton, Fla.
 Oak Ridge, Tenn.
 Toledo, Ohio
 Rockingham, N. C.
 Durham, N. C.
 Warren, Ark.
 Winston-Salem, N. C.
 Portsmouth, Ohio
 New York, N. Y.
 Osceola, Ark.
 Durham, N. C.
 Roanoke Rapids, N. C.
 Monroe, N. C.
 Portsmouth, Va.
 Durham, N. C.
 Tampa, Fla.
 Kenilworth, Ill.
 Louisville, Ky.
 Durham, N. C.
 Lakewood, Ohio
 Durham, N. C.
 Hagerstown, Md.
 Portland, Conn.
 Steubenville, Ohio
 Kenmore, N. Y.
 Atlanta, Ga.
 Indianapolis, Ind.
 Forest Hills, N. Y.

Keels, Ann Rebecca
 Kelly, Jeannette Sage
 Kern, Dolores Winn
 Kilgo, Susanne
 Kirtley, Muriel
 Kittrell, Pauline Hampton
 Knight, Ethel E.
 Koltinsky, Gloria
 Kornfeld, Mary Fleming
 Kuhl, Betty Louise
 Lauer, Kay E.
 Lawrence, Lottie Margaret
 Lee, Cecile
 Lester, Helen Greene
 Levine, Mary Norma
 Lipman, Norma Ann
 Lipsitz, Betty Lois
 Long, Barbara Ann
 Lummus, Constance
 Lyerly, Ann
 Magruder, Lila Jean
 Mahon, Daphne
 Markin, Ann
 May, Jean Marie
 McAdams, Martha Ann
 McCrimmon, Maria J.
 McDonald, Mary Frances
 McGiehan, Dayne
 McKennon, Martha Hellums
 McLawhorn, Mamie B.
 McNulty, Rosa Lee
 Meeker, Margaret Jean
 Mercner, Helen Leah
 Meredith, Dorothy Ann
 Michaels, Marilyn Jean
 Miller, Dorothy Louise
 Miller, Roberta Marie
 Mims, Eleanor Holland
 Moesta, Nancy Marilyn
 Mooney, Elizabeth Jane
 Morgan, Bobbie
 Morgan, Marion Hunter
 Morrison, Kathryn Ann
 Morse, Mary Ramsey
 Moser, Jean Ogle
 Munn, Betty Lee
 Nash, Hilda Marie
 Naylor, Beatrice Claire
 Nelson, Theresa E.
 Nichols, Mary Frances
 Nickerson, Jean Corliss
 Nicklas, Nancy Lee
 Northrop, Ruth Elizabeth
 Oakes, Margaret Jane
 O'Gorman, Kathleen
 Olive, Charlotte Ray
 O'Neil, Trilby Dickerson
 Owen, Marian
 Pace, Gladys Wooten

Florence, S. C.
 Charlotte, N. C.
 Washington, D. C.
 Greenville, N. C.
 Evanston, Ill.
 Bradenton, Fla.
 Durham, N. C.
 Princeton, Ky.
 Louisville, Ky.
 Coral Gables, Fla.
 Evansville, Ind.
 Durham, N. C.
 Tampa, Fla.
 Ardmore, Pa.
 Wilmington, N. C.
 New York, N. Y.
 Ahoskie, N. C.
 Middletown, Ohio
 Charlotte, N. C.
 Jacksonville, Fla.
 Washington, D. C.
 Washington, D. C.
 Ironton, Ohio
 Littleton, N. C.
 Wilmington, N. C.
 Henderson, N. C.
 Durham, N. C.
 Hartsdale, N. Y.
 Dumas, Ark.
 Winterville, N. C.
 Pittsburgh, Pa.
 East Orange, N. J.
 Westfield, N. J.
 Fairmont, W. Va.
 Litchfield Park, Ariz.
 Highland Park, N. J.
 Warren, Ohio
 Durham, N. C.
 Grosse Pointe, Mich.
 Charlotte, N. C.
 Bailey, N. C.
 Durham, N. C.
 St. Petersburg, Fla.
 Swarthmore, Pa.
 Frederick, Md.
 Dearborn, Mich.
 Durham, N. C.
 Woodbridge, N. J.
 Springfield, Mass.
 Rougemont, N. C.
 Daytona Beach, Fla.
 Pittsburgh, Pa.
 Babylon, N. Y.
 Malden, W. Va.
 Blackville, S. C.
 Durham, N. C.
 Alexandria, Va.
 Newton, N. C.
 Albany, Ga.

- Palmer, Ruth Arlene
 Parks, Genevieve Anne
 Patee, Jean Marie
 Patten, Jo Carmen
 Pecot, Marian
 Percilla, Helen Blanchard
 Plaster, Judith Steele
 Prather, Frances Jean
 Primrose, Patricia Ann
 Queally, Kathleen
 Rae, Joanne
 Ransom, Ann Katharine
 Reap, Mildred Virginia
 Reuter, Patricia Joyce
 Rogers, Hazel C.
 Rogers, Jean Lois
 Rogers, Margaret Craig
 Rountree, Minnie Louise
 Rowe, Jane Elizabeth
 Rudy, Martha
 Sargent, Mary
 Sawyer, Margaret Devere
 Schutz, Carolynne
 Schwartz, Sara Rose
 Scott, K. Lee Steele
 Secrest, Mary Henrietta
 Shannon, Margaret Gephart
 Shippey, Mary Lou
 Simpson, Mary Jane
 Slaven, Nancy Waddell
 Smith, Peggy Rose
 Smith, Rosalie Gertrude
 Spelsburg, Helen Rose
 Stewart, Jane Ellerbe
 Stewman, Emily
 Stollings, Merewyn Jane
 Sullivan, Elaine Cody
 Swindell, Ann Hamlin
 Taylor, Katharine Norwood
 Templeton, Virginia Ann
 Terrell, Katherine
 Thomas, Talmadge
 Thompson, Annie Audrey
 Thorne, Virginia Lee
 Tiller, Marian Newton
 Todd, Donna Mae
 Tommasi, Jean
 Valentine, Florence Underwood
 Van Steenberg, Neal M.
 Vigodsky, Leah June
 Vining, Elizabeth Anne
 Waddell, Sally O'Neil
 Wagenknight, Helene Trattner
 Wagoner, Christine Hough
 Waldorf, Mary Louise
 Walke, Emily Crosby
 Walker, Clara Elnora
 Walker, Vineta Fern
 Waller, Patricia Joan
 Ward, A. Katharine
 Charlotte, N. C.
 Kannapolis, N. C.
 N. Little Rock, Ark.
 McMinnville, Tenn.
 New Orleans, La.
 Albany, Ga.
 Washington, D. C.
 Hagerstown, Md.
 Americus, Ga.
 Washington, D. C.
 Atlanta, Ga.
 Atlanta, Ga.
 Raleigh, N. C.
 Kenmore, N. Y.
 Richmond, Va.
 Norristown, Pa.
 Chevy Chase, Md.
 Charlotte, N. C.
 Meriden, Conn.
 St. Petersburg, Fla.
 Orlando, Fla.
 Durham, N. C.
 Jamestown, N. Y.
 Miami, Fla.
 Kannapolis, N. C.
 Lillington, N. C.
 Wooster, Ohio
 Atlanta, Ga.
 Hagerstown, Md.
 Williamson, W. Va.
 Greenville, N. C.
 Arlington, Va.
 Clarksburg, W. Va.
 Charlotte, N. C.
 Lancaster, S. C.
 Mallory, W. Va.
 Colon, Panama
 Durham, N. C.
 Winston-Salem, N. C.
 Chattanooga, Tenn.
 Jacksonville, Fla.
 Louisburg, N. C.
 Gresham, S. C.
 Roanoke Rapids, N. C.
 Brunswick, Ga.
 Lansdowne, Pa.
 Hastings-on-Hudson, N. Y.
 Upper Montclair, N. J.
 Greenwich, Conn.
 Newberry, S. C.
 Tryon, N. C.
 Greensboro, N. C.
 Meriden, Conn.
 Walkertown, N. C.
 Wilmette, Ill.
 Baltimore, Md.
 Coldwater, Mich.
 Frederick, Okla.
 Durham, N. C.
 Dothan, Ala.

Warren, Nancy D.
 Way, Patricia Ann
 Weaver, Beverly Ann
 Weedon, Polly
 Wehn, Mary Joanna
 Wells, Reva Mae
 Wertenberger, Ila
 Whitner, Martha Brown
 Wiggins, Charlotte
 Wiley, Margaret Jean
 Wilhoit, Sally Jim
 Wilkins, Jeanne
 Williams, Bess E.
 Williams, Constance F.
 Williams, Elizabeth Faison
 Williams, Nancy Mae
 Willoughby, Marion Rose
 Wilson, Emily Jane
 Wilson, Susette
 Wood, Ann Dunlap
 Woodward, Elizabeth Anne
 Worthy, Rose Marion
 Wygal, Elizabeth Gay

Durham, N. C.
 Winnetka, Ill.
 St. Petersburg, Fla.
 St. Joseph, Mo.
 Beaver, Pa.
 Harrodsburg, Ky.
 Kent, Ohio
 Jacksonville, Fla.
 Durham, N. C.
 Pittsburgh, Pa.
 Daytona Beach, Fla.
 Birmingham, Mich.
 Durham, N. C.
 Macon, Ga.
 Durham, N. C.
 Winston-Salem, N. C.
 Jackson, Miss.
 Atlanta, Ga.
 Anna, Ill.
 High Point, N. C.
 Garland, N. C.
 Washington, N. C.
 Algoma, W. Va.

SOPHOMORE CLASS

Abernethy, Martha
 Addington, Sally Ann
 Airheart, Laura Frances
 Albertson, Anne Jane
 Alexander, Josephine Sophie
 Allen, Mary Lucile
 Ambrose, Elizabeth Lee
 Andrews, Edith Young
 Babcock, Mary Prentiss
 Bailey, Edith Pou
 Ball, Mary Katherine
 Barber, Sara Ann
 Barnhart, Jean Wilson
 Bartlett, Katherine Mignon
 Barzilay, Mary Jeanne
 Bashore, Audrey Elaine
 Baxter, Mary Elizabeth
 Bayliss, Betty Delaney
 Baynard, Barbara Margaret
 Becker, Jayne Ellen
 Bell, Linda
 Bernstein, Betty Mae
 Birmingham, Joan Louise
 Brackney, Jane
 Bramlett, Jean Margaret
 Briggs, Marcella
 Brimberry, Carolyn Virginia
 Brooks, Eleanor Randolph
 Brooks, Elizabeth
 Brown, Margaret Ware
 Brown, Mary Clapp
 Brown, Mary Emily
 Bryant, Betty Ann
 Buchanan, Betsy
 Burkhalter, Virginia Grace

Greensboro, N. C.
 Tullahoma, Tenn.
 Durham, N. C.
 Kane, Pa.
 Durham, N. C.
 Durham, N. C.
 Indiantown Gap, Pa.
 Durham, N. C.
 Cleveland, Ohio
 Raleigh, N. C.
 Kinston, N. C.
 Rocky Mount, N. C.
 Oxford, N. C.
 Beaumont, Tex.
 Lynbrook, N. Y.
 Washington, D. C.
 Orange, N. J.
 Richmond, Va.
 St. Petersburg, Fla.
 Kaufman, Tex.
 Springfield, Tenn.
 Burlington, N. C.
 Lewistown, Pa.
 Toledo, Ohio
 Miami, Fla.
 Durham, N. C.
 Miami Beach, Fla.
 Dallas, Tex.
 Upper Montclair, N. Y.
 Asheville, N. C.
 Asheville, N. C.
 Teaneck, N. J.
 Lakeland, Fla.
 Durham, N. C.
 Jacksonville, Fla.

- Bussell, Ida Blanche
 Campbell, Betty Garland
 Campbell, Gloria Helen
 Campbell, Mary Elizabeth
 Campbell, Virginia Mae
 Cardinal, Ruth Maureen
 Carpenter, Madge Eliza
 Carter, Virginia Rutherford
 Chapman, Betsy Jeanne
 Clevenger, Shirley
 Clute, Marjorie Anne
 Corbett, Patricia Jane
 Corbett, Phyllis Jean
 Covington, Sara Catherine
 Cozart, Patsy Burns
 Craig, Anne Elizabeth
 Crane, Charlotte Esther
 Crim, Patricia M.
 Crowell, Jeanne
 Crum, Katharine Howell
 Damtoft, Anne Elizabeth
 Davis, Dorothy Marie
 Davis, Mary Elizabeth
 Dawson, Joyce Ellen
 Deuell, Estelle Virginia
 Dick, Shirley May
 Dickerson, Sara Ellen
 Dimmitt, Mary Frances
 Dunn, Jean Elliott
 Durand, Priscilla C.
 Durham, Lydia Jean Knuckles
 Eagles, Pauline Jeanne
 Elder, Mary Frances
 Elfreth, Beatrice
 Emhardt, Margaret Ann
 Erwin, Jean Crawford
 Fagan, Virginia
 Fariss, Charlotte Ann
 Foley, Eleanor Page
 Fothergill, Margaret
 Fountain, Loring
 Foutz, Patsy Ruth
 Frans, Margaret Ann
 Freed, Mary Kathryn
 French, Emma Elizabeth
 Fursdon, Doris Rogers
 Gardner, Lucy Frank
 Gentner, Dorothe Florence
 Gibson, Marilyn Margaretta
 Gluck, Jessie Adelaide
 Gross, Martha Holcomb
 Grubbs, Winifred Louise
 Guest, Carol
 Gunn, Virginia Anne
 Hall, Clarice Gertrude
 Hamilton, Margaret Adelaide
 Harkey, Doris
 Harmon, Jeanne Leona
 Harrell, Elizabeth Ann
 Harrell, Sarah Norfleet
 Durham, N. C.
 Lewisburg, W. Va.
 Nashua, N. H.
 Raleigh, N. C.
 West Englewood, N. J.
 Montgomery, Ala.
 Durham, N. C.
 Durham, N. C.
 Morristown, N. J.
 Toledo, Ohio
 Upper Darby, Pa.
 Cincinnati, Ohio
 Cincinnati, Ohio
 Gastonia, N. C.
 Fuquay Springs, N. C.
 Little Rock, Ark.
 Detroit, Mich.
 Ft. Lauderdale, Fla.
 Wilmette, Ill.
 Durham, N. C.
 Asheville, N. C.
 Durham, N. C.
 Warren, Ohio.
 Douglaston, N. Y.
 Newport News, Va.
 Mount Vernon, N. Y.
 Lakeland, Fla.
 Swarthmore, Pa.
 Leaksville, N. C.
 Sea Girt, N. J.
 Veverly, Ky.
 Durham, N. C.
 Durham, N. C.
 Southern Pines, N. C.
 Alexandria, Va.
 Spartanburg, S. C.
 Decatur, Ga.
 Fort Benning, Ga.
 Eastville, Va.
 Guayaquil, Ecuador
 Matawan, N. J.
 Salisbury, N. C.
 Hickory, N. C.
 Reading, Pa.
 Woodstock, Va.
 Petersburg, Va.
 Raleigh, N. C.
 Philadelphia, Pa.
 Elizabethton, Tenn.
 Minerva, Ohio
 Birmingham, Ala.
 Pittsburgh, Pa.
 West Hartford, Conn.
 Wilson, N. C.
 Tampa, Fla.
 Fort Myers, Fla.
 Charlotte, N. C.
 Vienna, Va.
 Birmingham, Mich.
 Wilson, N. C.

Harris, Bennie
 Hartman, Virginia Lucille
 Harwell, Helen
 Heilman, Teresa Marie
 Helmbold, Edith Edwards
 Hermance, Barbara Virginia
 Hill, H. Jane
 Hollings, Doreen
 Hollmeyer, Ruth Katrine
 Holmes, Sarah Elizabeth
 Holt, Betsy Clifford
 Hood, Mary Rawlings
 Hooper, Carolyn Branson
 Hopkins, Mary Ella
 Hoyle, Sarah Miriam
 Huckabee, Margaret Kathryn
 Huckle, Sara Wycliffe
 Hudson, Frances
 Johnson, Carolyn Jean
 Johnson, Lois Rebecca
 Jones, Margaret Louise
 Kafka, Bluma May
 Kalquist, Majel Louise
 Kauble, Virginia Fay
 Kelly, Alice Miriam
 Kern, Catharine Deane
 Kidder, Eleanor Frances
 Kingsland, Helen Irene
 Knoll, Louella Dorothy
 Knuckles, Esther Mae
 Koontz, Carolyn Ann
 Kupp, Elaine Beatrice
 Larkin, Ann Crawford
 Lee, Clara Elizabeth
 Lehman, Margaret Rae
 Lentz, Jeannette Harris
 Lewis, Mary Clare
 Linkins, Nancy Winifred
 Long, Rosalie Elma
 Lowrance, Margaret L.
 MacMurtrie, Nancy
 Majer, Mildred Burnley
 Malley, Martha Ann
 Mallison, Mary Bradley
 Mansfield, Lillian Alice
 Marshall, Patricia
 Matthaues, Jane Annette
 McCarthy, Eunice M.
 McCarthy, Mary Ellen
 McClure, Merlyn Pauline
 McCreery, Nannette Jeanne
 McDermott, Muriel Pierce
 McDermott, Rose Marie
 McDonald, Jane Mellon
 McElroy, Antoinette Paulin
 McSwain, Rachel Ann
 Meighen, Margaret Susan
 Mertz, Beatrice Parry
 Messenkopf, Eleanor Ada
 Messner, Frances Evelyn

Lowell, N. C.
 Upper Montclair, N. J.
 Tampa, Fla.
 Rockledge, Fla.
 Washington, D. C.
 Nashua, N. H.
 Bethlehem, Pa.
 Rahway, N. J.
 New York, N. Y.
 Fayetteville, N. C.
 Greensboro, N. C.
 Richmond, Va.
 Durham, N. C.
 Washington, D. C.
 Durham, N. C.
 Durham, N. C.
 Rock Hill, S. C.
 Anderson, Ind.
 Rocky Mount, N. C.
 Alexandria, Va.
 Rydal, Pa.
 Richmond, Va.
 Westfield, N. J.
 St. Augustine, Fla.
 Troy, Ala.
 Washington, D. C.
 Joilet, Ill.
 Burlington, N. C.
 Brooklyn, N. Y.
 Beverly, Ky.
 Washington, D. C.
 Depew, N. Y.
 Burlington, N. C.
 Middleburg, N. C.
 Toledo, Ohio
 Albemarle, N. C.
 Fort Myer, Va.
 Washington, D. C.
 Columbia, S. C.
 Durham, N. C.
 Philadelphia, Pa.
 Crestwood, N. Y.
 Wildwood, N. J.
 Purcellville, Va.
 Durham, N. C.
 Port Chester, N. Y.
 Miami, Fla.
 Watertown, Mass.
 Washington, D. C.
 Cincinnati, Ohio
 Pittsburgh, Pa.
 Jackson, Miss.
 Durham, N. C.
 Charlotte, N. C.
 Latrobe, Pa.
 Evanston, Ill.
 Tampa, Fla.
 Elkins Park, Pa.
 Erie, Pa.
 Great Neck, N. Y.

- Mickelsen, Helen Jean
 Morton, Nancy Ann
 Murchison, Betty Powell
 Neely, Beverly Joy
 Neuhoﬀ, Ruth Marguerite
 Noell, Jane Carolyn
 Onley, Joan Thomas
 Outler, Helen
 Paradies, Janice Maree
 Paty, Matilda Jane
 Pearse, Mary Barbara
 Pepper, Katherine Margaret
 Peterson, Margaret F.
 Pickard, Annie Sue
 Pierson, Gwendolyn
 Pierson, Marion Earl
 Preston, Delia Joyce
 Recio, Nora Elisa
 Rendleman, Ann Marie
 Renn, Lydia Steele
 Rezner, Elizabeth
 Richards, Ellen Louise
 Ridout, Betty
 Rimer, Allienne Marie
 Rita, Gloria Gabriel
 Rockey, Jean
 Rogers, Virginia Joyce
 Routt, Shirley Anne
 Sachs, Barbara
 Saum, Mary Elton
 Sawyer, Eleanor June
 Schimel, Jeanne Merrill
 Schmidt, Evelyn D.
 Schock, Barbara Joan
 Schuler, Marjorie Ann
 Schwarz, Laura Anne
 Sears, Ann I.
 Seeley, Mary Elisabeth
 Seifert, Barbara Lucille
 Shankle, Dorothy Lea
 Shanley, D. Elizabeth
 Silliman, Patricia Brandel
 Smith, Elizabeth Coppridge
 Smith, Estelle H.
 Smith, Marjory
 Smith, Mary Louise
 Smoot, Ann Wilson
 Spicer, Leah Virginia
 Stapleford, Anne Wilson
 Starner, Aleen
 Stewart, Mary Nancy
 Strand, Dolores Eileen
 Strange, Jean Marie
 Sunderman, Ruth Elizabeth
 Swoﬀord, Margaret Elizabeth
 Talton, Hilda Yvonne
 Taylor, Margaret Green
 Taylor, Mary Jo
 Theodorsen, Muriel
 Thompson, Charlotte Evelyn
 Fort Bliss, Tex.
 Tryon, N. C.
 Rocky Mount, N. C.
 Atlanta, Ga.
 St. Louis, Mo.
 Durham, N. C.
 Arlington, Va.
 Washington, D. C.
 Atlanta, Ga.
 Elizabethton, Tenn.
 Raleigh, N. C.
 Camp Lejeune, N. C.
 Rutherford, Tenn.
 Durham, N. C.
 Atlanta, Ga.
 Atlanta, Ga.
 Winston-Salem, N. C.
 Guayama, Puerto Rico
 Salisbury, N. C.
 Durham, N. C.
 Durham, N. C.
 Philadelphia, Pa.
 Pelham Manor, N. Y.
 Charlotte, N. C.
 Roselle Park, N. J.
 Westfield, N. J.
 Charlotte, N. C.
 Okmulgee, Okla.
 New York, N. Y.
 Alexandria, Va.
 Miami, Fla.
 Jersey City, N. J.
 North Plainfield, N. J.
 Arlington, Va.
 St. Petersburg, Fla.
 Webster Groves, Mo.
 Birmingham, Mich.
 Durham, N. C.
 New York, N. Y.
 Greensboro, N. C.
 Kirkwood, Mo.
 Marion, Va.
 Charlotte, N. C.
 Philadelphia, Pa.
 Alexandria, Va.
 Winston-Salem, N. C.
 Seaford, Del.
 Henderson, W. Va.
 Durham, N. C.
 Coral Gables, Fla.
 Lancaster, S. C.
 Hadlyme, Conn.
 Richmond, Va.
 Arlington, Va.
 Ellenboro, N. C.
 Durham, N. C.
 Roanoke Rapids, N. C.
 Shaker Heights, Ohio
 Hampton, Va.
 Charlotte, N. C.

Threadgill, Mary Catherine
 Throne, Margaret Elizabeth
 Tierney, Patricia E.
 Toms, Mary Elizabeth
 Torbett, Adah Elizabeth
 Trask, Elizabeth Morton
 Traylor, Joan Louise
 Tucker, Charlotte Clements
 Upshur, Florence
 Van Trine, Marian Thwing
 Wagner, Charlotte A.
 Walker, Betty Louise
 Walters, Mary Elizabeth
 Warren, Janet Bancroft
 Watson, Becky
 Weiland, Patricia Ruth
 Weintraub, Ronda Joyce
 Wheaton, Charlotte Louise
 White, Marjorie Anne
 White, Mary Alice
 Whitney, Marjorie Ruth
 Wiles, Myrtle Edith
 Wilkinson, Gladys Virginia
 Williams, Betty Lou
 Williams, Jean Elizabeth
 Wineland, Mary Alice
 Winter, Mary Elizabeth
 Wiseman, Alice Margaret
 Womble, Aetna Katherine
 Wood, Anne
 Worthy, Mary Ann
 Yates, Maxine Louise

Rockingham, N. C.
 York, Pa.
 Pelham Manor, N. Y.
 Wilmington, N. C.
 Huntington, W. Va.
 Wilmington, Del.
 Springfield, Mo.
 Durham, N. C.
 Eastville, Va.
 Durham, N. C.
 York, Pa.
 Flint, Mich.
 Miami Beach, Fla.
 Holden, Mass.
 Lakeland, Fla.
 Coral Gables, Fla.
 New York, N. Y.
 Washington, D. C.
 New York, N. Y.
 Birmingham, Ala.
 Washington, D. C.
 Burlington, N. C.
 Roanoke, Va.
 Acme, N. C.
 Rocky Mount, N. C.
 Dayton, Ohio
 Pottsville, Pa.
 Avondale, N. C.
 Durham, N. C.
 Braintree Highlands, Mass.
 Shaker Heights, Ohio
 Pineville, N. C.

JUNIOR CLASS

Akers, Rowena Betty
 Ammerman, Jane
 Anderson, Emily Katherine
 Bagley, Salatha Louise
 Barnwell, Gwin
 Bashor, Marie Elizabeth
 Beattie, Mary Elizabeth
 Beggs, Betty Ann
 Bennethum, Marjorie Gurnett
 Berkson, Carmela
 Bledsoe, Betty Jane
 Boehme, Mary Harding
 Bottoms, Dreama Eileen
 Bowmall, Suzanne Clare
 Brahany, Gloria Anne
 Britt, Marie Baker
 Brorein, Marjorie Louise
 Brown, Nancy Elizabeth
 Brown, Virginia Lee
 Buchanan, Alma Anne
 Burdett, Joneta
 Burgard, Annette Crawford
 Busschaert, Elaine Gabrielle
 Cameron, Marjorie Louise
 Carter, Jacqueline Anne
 Cassidy, Mary Ann

Frederick, Md.
 Orange, N. J.
 Detroit, Mich.
 Tampa, Fla.
 Gastonia, N. C.
 Goulds, Fla.
 Winchester, Va.
 Baltimore, Md.
 Aurora, Ill.
 New York, N. Y.
 Greensboro, N. C.
 Louisville, Ky.
 Pittsburgh, Pa.
 Hollywood, Fla.
 Richmond, Va.
 Lumberton, N. C.
 Tampa, Fla.
 Hillsboro, N. C.
 Washington, D. C.
 Harriman, Tenn.
 Atlanta, Ga.
 Columbus, Ga.
 New York, N. Y.
 Meriden, Conn.
 Drexel Hill, Pa.
 Park Ridge, Ill.

- Chelimer, Edith Avery
 Church, Willa Lee
 Clarkson, Sarah B.
 Cohen, Joyce Ruth
 Colston, Margaret Virginia
 Colton, Emmi
 Corwin, Patricia Ann
 Cogle, Syble Lawson
 Council, Grace McNinch
 Courts, Sara Anne
 Cox, Dorothy Lucile
 Dabbs, Margaret Louise
 DeLong, Lois Ellen
 DeMarzy, Verna
 Derrick, Irene Ritter
 DeVan, Cornelia Imogene
 Doctor, Anna Lou
 Donovan, Caroline Catherine
 Dopke, Virginia H.
 Duffy, Ruth Anne
 Eichwald, Elsie Courtright
 Fensterwald, Alice A.
 Fetherston, Dorothy Jean
 Fike, Ruth Marie
 Fleck, Elizabeth Jane
 Fletemeyer, Gloria Lou
 Fogle, Marjorie Elberta
 Foote, Marie Lovett
 Franklin, Amy Josephine
 Freedley, Pauline Carol
 Fulton, Margaret Alice
 Fultz, Beverly Ann
 Gantt, Betty Sue
 Garrison, Barbara Jane
 Gaudynski, Joan Louise
 Gibson, Lillian Daphne
 Gobbel, Margaret McElrath
 Goree, Charlotte Virginia
 Gosford, Barbara Olyve
 Green, Cathie Ann
 Green, Harriet
 Griggs, Harriet
 Griswold, Marie Frances
 Groh, Phyllis Marie
 Gross, Beatrix Cobb
 Hanlon, Lois Jeanne
 Hanson, Patricia Ann
 Harris, Martha Jane
 Hartz, Hazel Rodgers
 Heffner, Ann Thornton
 Helmick, Harriet Wright
 Heygel, Alice Mildred
 Heykoop, Hendrika
 Hill, Althea Frances
 Holmes, Carol Ruth
 Hunter, Ann Shirley
 Huntsman, Carman
 Hylton, Harriet
 Ipock, Annie Charlton
 Jenkins, Margaret
 New Rochelle, N. Y.
 Youngstown, Ohio
 Charlotte, N. C.
 Philadelphia, Pa.
 Shaker Heights, Ohio
 Hendersonville, N. C.
 Harrisburg, Pa.
 Durham, N. C.
 Charlotte, N. C.
 Reidsville, N. C.
 Miami, Fla.
 Mayesville, S. C.
 Jamestown, N. Y.
 Euclid, Ohio
 Brookline, Mass.
 Mobile, Ala.
 High Point, N. C.
 Milford, Pa.
 Milwaukee, Wis.
 Rocky Mount, N. C.
 Durham, N. C.
 Norfolk, Va.
 Baldwin, L. I., N. Y.
 Ahsokie, N. C.
 Mt. Holly Springs, Pa.
 Detroit, Mich.
 Naranja, Fla.
 Mobile, Ala.
 Oak Ridge, Tenn.
 Haddonfield, N. J.
 Raleigh, N. C.
 Hagerstown, Md.
 Norfolk, Va.
 Maplewood, N. J.
 Milwaukee, Wis.
 Durham, N. C.
 Suffolk, Va.
 Chattanooga, Tenn.
 Philadelphia, Pa.
 Raleigh, N. C.
 Abington, Va.
 Waltham, Mass.
 Washington, D. C.
 Hagerstown, Md.
 Durham, N. C.
 Odessa, N. Y.
 Hopewell, Va.
 Newport News, Va.
 New York, N. Y.
 Ashland, Ky.
 Fairmont, W. Va.
 Asheville, N. C.
 Enka, N. C.
 Willimantic, Conn.
 Ridgefield, N. J.
 Philadelphia, Pa.
 Washington, D. C.
 Welch, W. Va.
 Elkin, N. C.
 Salisbury, N. C.

Jewell, Betty Bell
Jordan, Sara Alice
Kelly, Patricia Ann
Kiley, Alyce Jeanne
Klotz, Peggy Jean
Lanham, Nora Olivia Sherertz
Launi, Nettie Margaret
Lewis, Dorothy Brooks
Lovelace, Mary Ellen
Lowrie, Margaret
Main, Barbara
Manahan, Mary Carolyn
Mayers, Catherine Ann
McCarty, Jerree Ashton
McCaskill, Jean
McCrummen, Nancy Ione
McGowen, Martha Frances
Meriwether, Jane
Merrill, Mary Constance
Merris, Dora Kendig
Milam, Frances Nunley
Mill, Roberta Anne
Minnich, Gilda Hazel
Mirick, Marjorie
Mixson, Bettye Marie
Moffett, Margaret Paul
Moore, Birdie Jean
Newbold, Betty
Newman, Camille L.
Nicholl, Elinore K.
Oakes, Lucie Mae
Oakes, Lucille McCoy
O'Malley, Gertrude Michael
O'Neill, Norine Elizabeth
Ormond, Elizabeth
Otto, Margaret
Pace, Emma Jean
Parker, Charlene Louise
Parsons, Frances Virginia
Peace, Virginia Olive
Perkins, Barbara L.
Perkins, Janet
Poe, Lucy Naldi
Prather, Elizabeth Anne
Puett, Corinne
Quinn, Jacqueline
Reap, Margaret Anne
Redding, Margaret Elizabeth
Reed, Earlyn Jo
Rhodes, Frances Pollard
Rhodes, Marian Johnson
Rial, Rhoda Valerie
Ritch, Lois Wilson
Ritchey, Velma Jayne
Roberts, Rachel Evans
Romaine, Ruth Marie
Rose, Elaine Irene
Ruppenthal, Lois Dorothea
Russell, Elsie Jean

Detroit, Mich.
Raleigh, N. C.
Durham, N. C.
Evanston, Ill.
Staunton, Va.
New York, N. Y.
Arlington, Va.
Miami Beach, Fla.
Washington, D. C.
Bowling Green, Ohio
Ormond Beach, Fla.
Camden, Del.
Shaker Heights, Ohio
Glendive, Mont.
Miami, Fla.
Birmingham, Ala.
Highland Park, Ill.
Kansas City, Mo.
Palatka, Fla.
Towanda, Pa.
Sutherlin, Va.
Birmingham, Mich.
York, Pa.
Shelburne Falls, Mass.
Beaumont, Tex.
Camden, N. J.
West Palm Beach, Fla.
Newport News, Va.
Charlotte, N. C.
Philadelphia, Pa.
Malden, W. Va.
Weldon, N. C.
Rahway, N. J.
Habana, Cuba
Durham, N. C.
Philadelphia, Pa.
Zebulon, N. C.
Lakewood, Ohio
Altoona, Pa.
Plainville, Conn.
Rutland, Vt.
Rutland, Vt.
Durham, N. C.
Hagerstown, Md.
Dallas, N. C.
York, Pa.
Albemarle, N. C.
Tampa, Fla.
Lake Worth, Fla.
Washington, N. C.
Winchester, Va.
Buffalo, N. Y.
Charlotte, N. C.
Bethlehem, Pa.
Mount Vernon, N. Y.
E. Cleveland, Ohio
New York, N. Y.
Durham, N. C.
Glencoe, Ill.

Sapherstein, Passie O.
 Saunders, Gladys Mae
 Schenck, Helene Jocelyn
 Scott, Anna Ruth
 Shaw, Billie Claudine
 Sherrill, Jane
 Shetrone, Louise
 Shumaker, Audrey Lenore
 Smiseth, Gwendolyn E.
 Smith, Barbara
 Smith, Ethelyn Marie
 Smith, Judith Brevoort
 Smith, Margaret Elisabeth
 Smith, Wilma
 Smither, Alice Haislip
 Smoot, Lucile Cobb
 Sour, Nancy
 Stanton, Tommye
 Stapf, Edith Ellen
 Stark, Jeanne McGilvray
 Stathers, Mary Jeannette
 Stone, Mary Catherine
 Stride, Elaine
 Stutts, Mary Elizabeth
 Suiter, Virginia Ghio
 Taylor, Betty Ann
 Tecklin, Helen Barbara
 Thackston, Kathryn Inez
 Thigpen, Dorothy Dotger
 Thomas, Reba Carolyn
 Thornton, Marilyn Edith
 Todd, Doris Louise
 Tower, Jean Frances
 Troxell, Betty Jane
 Turner, Dorothy
 Turner, Lucy Belle
 Upshaw, Nancy Miller
 Vandiver, Evelyn Florence
 Vereen, Jessie Louise
 von Nardroff, Elfrieda
 Ward, Patricia Marie
 Warren, Eleanor Mitchell
 Weiland, Johanna Jean
 Wenger, Nancy Jane
 White, Anne Douglass
 Whitely, Hulda Ruth
 Whitlock, Shirley
 Wilson, Mary Allen
 Wilson, Mary Locklin
 Wooten, Terry Claire
 Worth, Elizabeth Millner
 Yokeley, Martha Jean
 Young, Cora Lynn
 Yount, Marea Jordan
 Zehmer, Margaret Tyler

New York, N. Y.
 Durham, N. C.
 Pittsburgh, Pa.
 Kannapolis, N. C.
 Charlotte, N. C.
 Charlotte, N. C.
 Shillington, Pa.
 Lewiston, Pa.
 St. Petersburg, Fla.
 Fall River, Mass.
 Daytona Beach, Fla.
 Greystone Park, N. J.
 Washington, Ill.
 Durham, N. C.
 Winston-Salem, N. C.
 Tarboro, N. C.
 Shreveport, La.
 High Point, N. C.
 Cristobal, Canal Zone
 Bethlehem, Pa.
 Clarksburg, W. Va.
 Dillon, S. C.
 Biddeford, Maine
 Erwin, N. C.
 Weldon, N. C.
 Tampa, Fla.
 Water Mill, L. I., N. Y.
 Durham, N. C.
 Charlotte, N. C.
 Durham, N. C.
 Oakfield, N. Y.
 Alexandria, Va.
 Hanover, Mass.
 Canton, Ohio
 Rocky Mount, N. C.
 Durham, N. C.
 Raleigh, N. C.
 Durham, N. C.
 Miami, Fla.
 New York, N. Y.
 Lakeland, Fla.
 Shaker Heights, Ohio
 Coral Gables, Fla.
 Baltimore, Md.
 Nashville, Tenn.
 High Point, N. C.
 Warren, Ohio
 Birmingham, Ala.
 Mobile, Ala.
 Shellman, Ga.
 Durham, N. C.
 Winston-Salem, N. C.
 Raleigh, N. C.
 Graham, N. C.
 Birmingham, Ala.

SENIOR CLASS

Abelman, Betty
 Adams, Erma Lee

Atlanta, Ga.
 Durham, N. C.

Allard, Margaret Louise
Armistead, Gloria May
Axton, Barbara Joan
Bacon, Margaret Elizabeth
Barber, Mary Aileen
Barber, Mary Nancy
Barkwell, Jean Eleanor
Barnhardt, Helen McGill
Barrow, Catherine
Barthen, Jacqueline
Baumgartner, Nancy Jean
Beaver, Josephine
Beckert, Shirley Louise
Bell, Janice Eileen
Blue, Lucile Edgerton
Boddie, Harriet Susan
Bogert, Esther Eoline
Boren, Betty Lee
Brett, Elizabeth Ann
Brown, Margaret Daves
Burroughs, Anne Stapley
Cardo, Augusta Patricia
Carlton, Margie
Cauldwell, Eleanor Thackara
Christodoulou, Marie N.
Clark, June Fouraker
Clark, Mary Ann
Cline, Alice Jeannette
Coble, Eugenia Elizabeth
Coe, Jean Blair
Colbert, Jeanne
Collins, Genevieve Cecilia
Compton, Caroline King
Cone, Patricia
Cotten, Annie Laura
Grigger, Beatrice
Cunliff, Elizabeth Wilson
Currie, Virginia Dare
Dameron, Sarah Elizabeth
Davie, Shirley Christina
Davis, Ann Minerva
Davis, Elizabeth Susan
Decker, Shirley Margaret
DeWitt, Margaret Elizabeth
Donegan, Mildred Alice
Donovan, Nancy Meacham
Dravo, Marguerite deVere
Duncan, Kathleen
Durant, Harriet March
Edwards, Barbara Jean
Eldredge, Geneva Edwina
Enslin, Joyce Elizabeth
Ethridge, Mary Snow
Evans, Dorothy Elaine
Flexner, Anne
Ford, Grace Pullen
Freeman, Carol
Froass, Mary Constance
Gantt, Dorothy Hyland

Steubenville, Ohio
Roanoke, Va.
Durham, N. C.
Sandusky, Ohio
Greensboro, N. C.
Asheville, N. C.
Indiana, Pa.
Concord, N. C.
St. Joseph, Mo.
River Edge, N. J.
Winona, Minn.
Albemarle, N. C.
West Orange, N. J.
Westfield, N. J.
Murfreesboro, Tenn.
Durham, N. C.
Southboro, Mass.
Dayton, Ohio
Santa Barbara, Calif.
Pittsburgh, Pa.
Metuchen, N. J.
Charlotte, N. C.
Tampa, Fla.
Fitchburg, Mass.
Welch, W. Va.
Raleigh, N. C.
Washington, D. C.
Norfolk, Va.
Durham, N. C.
Arlington, Va.
Washington, D. C.
Kingsport, Tenn.
Gallion, Ala.
East Hampton, Conn.
Stem, N. C.
Fort Sill, Okla.
Rose Hill, N. C.
Whiteville, N. C.
Durham, N. C.
Norfolk, Va.
Durham, N. C.
Richmond, Va.
New York, N. Y.
Grand Haven, Mich.
Largo, Fla.
Washington, D. C.
Louisville, Ky.
Durham, N. C.
Mobile, Ala.
Goldsboro, N. C.
South Orleans, Mass.
New York, N. Y.
Prospect, Ky.
Washington, Pa.
Louisville, Ky.
Milford, Conn.
Sunbury, Pa.
Oneida, N. Y.
Lansdowne, Pa.

- Gauchat, Joan Marie
Geyer, Mary Adeline
Gilliam, Betty Jean
Goodman, Katherine Louise
Goodson, Elsie
Goodwin, Helen Dyer
Gordon, Jesse Hargrave
Grebe, Camilla Anne
Green, Betty Josephine
Greenwell, Merthel
Grimes, Gloria Lee
Groome, Dottie Dare
Haering, Helen Elizabeth
Harbison, Kathryn Holt
Hawkins, Virginia Cecil
Heim, Peggy
Hightower, Dorothy
Hilley, Jeanne Tucker
Hillman, Anne Warlick
Hines, Carolyn Focer
Horsley, Catherine Jean
Hostetter, Margaret Jane
Howard, Emily Jane
Howe, Betty
Hurley, Susanne H.
Jackson, Betty Lou
Johnson, Natalie Kristina
Johnson, Shirley Mae
Jones, Marjorie May
Jones, Mary Elizabeth
Kansteiner, Helen Ruth
Kearns, Susan
Kindler, Helen Yvonne
King, Carolyn
Knowles, Marjorie
Lange, Katharine
Laws, Nancy Lee
Lee, Maren Theodora
Levy, Merle Jane
Lineberger, Anne S.
Lockhart, Ann
Long, Agnes Christie
Luessenhop, Barbara Ann
Maddox, Mildred Mitchell
Magill, Sara Kennedy
Makovsky, Alice Anne
Marks, Elizabeth
Mathews, Emily M.
Matthews, Helen Elizabeth
Mayhew, Barbarajane
McArthur, Jean
McCall, June
McMahan, Betty Anne
McMorries, Cynthia Read
Meadows, Mary Martha
Meister, Dagmar Amy
Mellon, Joan Seidenman
Merritt, Mary Louise
Metzner, Betty Jane
Canton, Ohio
South Bend, Ind.
Washington, D. C.
Wilmington, N. C.
Valdosta, Ga.
Pittsfield, Mass.
Lexington, N. C.
Hollis, N. Y.
Downey, Ill.
Dallas, Tex.
Charlotte, N. C.
Atlanta, Ga.
Petersburg, Va.
Concord, N. C.
Bloomfield, N. J.
Sunbury, Pa.
Wadesboro, N. C.
Wilson, N. C.
Rocky Mount, N. C.
Drexel Hill, Pa.
Miami, Fla.
Matawan, N. J.
Northboro, Mass.
Cordova, Ala.
Greensboro, N. C.
Framingham, Mass.
Miami, Fla.
Lakewood, N. J.
Milwaukee, Wis.
Webster Groves, Mo.
Basking Ridge, N. J.
Welch, W. Va.
Jessups, Md.
Marion, Ohio
Fairmont, W. Va.
Kansas City, Mo.
Chevy Chase, Md.
West Hempstead, N. Y.
West Hartford, Conn.
Raleigh, N. C.
Wadesboro, N. C.
Durham, N. C.
Westfield, N. J.
Swansboro, N. C.
Chester, S. C.
Boonton, N. J.
Sanford, N. C.
Jacksonville, Fla.
Durham, N. C.
Coral Gables, Fla.
Miami, Fla.
Houston, Tex.
Mocksville, N. C.
Miami Beach, Fla.
Charleston, W. Va.
New York, N. Y.
Philadelphia, Pa.
Mount Airy, N. C.
Syracuse, N. Y.

Mickelsen, Patricia Anne	Fort Bliss, Tex.
Moore, Virginia Lee	Baltimore, Md.
Mordecai, Ellen	Raleigh, N. C.
Morgan, Marie	Bailey, N. C.
Morgan, Mary	New York, N. Y.
Morrison, Harriet Marie	Birmingham, Ala.
Morton, Marion Boyd	Oxford, N. C.
Mulligan, Helene Grace	Lakewood, Ohio
Mulligan, Mary Lou	Lakewood, Ohio
Murph, Guynell	White Stone, S. C.
Murray, Betty Lou	Charleston, W. Va.
Musselman, Nina Mae	Bethlehem, Pa.
Nicholson, Martha	Statesville, N. C.
Obermaier, Margaret Elizabeth	York, Pa.
Olive, Betsy Ann	Durham, N. C.
Patton, Marjorie Rose	Jonesboro, Ark.
Paty, Jo Anne	Elizabethton, Tenn.
Phipps, Carol King	Clintwood, Va.
Pierce, Margaret E.	Hallowell, Me.
Pine, Elizabeth Carr	Washington, D. C.
Poole, Madge	Troy, N. C.
Poole, Nell	Troy, N. C.
Powell, Sophia Maude	Elon College, N. C.
Protzmann, Beverly Ann	New York, N. Y.
Rake, Margaret E.	Philadelphia, Pa.
Ramsburgh, Julia Maynard	Frederick, Md.
Ramsey, Barbara	Washington, D. C.
Rankin, Betsy Brandon	Concord, N. C.
Rankin, Eleanor Lambeth	Durham, N. C.
Reep, Wilda	Durham, N. C.
Rhodes, Mary Elizabeth	Lincolnton, N. C.
Richards, Memory Fay	Columbus, Ga.
Richardson, Frances Claire	West Hartford, Conn.
Rile, Harriet Harvey	Philadelphia, Pa.
Roach, Eleanor Lee	Salisbury, Md.
Rochlin, Anne Niuta	Statesville, N. C.
Ronk, Alice Edwina	Suffern, N. Y.
Ruppenthal, Ethel	Durham, N. C.
Ryon, Mary Elizabeth	Washington, D. C.
Sarré, Eugenie	New Orleans, La.
Schlueter, Alice Hazel	Orange, N. J.
Scholz, Elizabeth A.	Birmingham, Ala.
Schroder, Margaret Pauline	Durham, N. C.
Schulken, Mildred Deppe	Durham, N. C.
Scuran, Carol Ovedia	Belle Glade, Fla.
Shapleigh, Virginia	Athens, Ga.
Siegal, Leona B.	Durham, N. C.
Smith, Rosalind Gower	Wilmington, Del.
Soar, Marjorie Elizabeth	Maplewood, N. J.
Sprague, Marian Alice	Salamanca, N. Y.
Stark, Carol Jane	Erie, Pa.
Starnes, Elizabeth Colclough	Cherryville, N. C.
Stewart, Virginia Yvonne	Charlotte, N. C.
Stoddard, Donna Elizabeth	North Newington, Conn.
Succop, Oneita Ann	Freehold, N. J.
Sugg, Dorothy Elizabeth	Durham, N. C.
Super, Mary Virginia	Petersburg, Va.
Swisher, Betty Lee	Levels, W. Va.
Taeusch, Barbara Jean	Washington, D. C.
Taylor, Marguerite Getaz	Morristown, Tenn.

THE GRADUATE SCHOOL OF ARTS AND SCIENCES

ACADEMIC YEAR, 1944-45

Baker, Maury Davison, Jr.	Richmond, Va.
A.B. (University of Miami); A.M. (Duke University), History.	
*Barbee, John Martin	Charlotte, N. C.
A.B. (Bob Jones College), Philosophy, Psychology.	
†Barbour, Ian Graeme	Cincinnati, Ohio
A.B. (Swarthmore College), Physics.	
†Barstow, Betty Dick	Midland, Mich.
A.B. (University of Michigan), Mathematics, Philosophy.	
Beeler, James Rush	Burnsville, N. C.
A.B. (University of North Carolina), French.	
Bennett, Jean Arline	Brevard, N. C.
A.B. (Duke University), French, Spanish.	
Bentley, Nancy Joyce	Durham, N. C.
A.B. (Duke University), Botany.	
Berry, Lucia Kendall	Durham, N. C.
B.S. (Tufts College), Education.	
Bishop, Benjamin Harold	Spartanburg, S. C.
B.S. (Wofford College), Chemistry, Physics.	
Bitner, Harold Miller	Williamson, Pa.
B.S. in Ed. (Shippensburg State Teachers College), Education, Psychology.	
Blackstock, Walter, Jr.	Atlanta, Ga.
A.B. (University of Georgia); A.M. (Vanderbilt University), English.	
Blair, Norman John	Lynbrook, N. Y.
Ph.B. (Brown University); A.M. (New York University), Psychology, Education.	
†Bloom, Melvin Sigmund	Greenville, S. C.
B.S. (Furman University); A.M. (Duke University), Chemistry.	
Braverman, Howard	Brooklyn, N. Y.
A.B. (Brooklyn College), History, English.	
Brewer, Earl David Clarence	Bahama, N. C.
B.Ph., B.D. (Emory University), Sociology, Psychology.	
Brice, Ashbel Green	York, S. C.
A.B., A.M. (Columbia University), English.	
Brownlee, William Hugh	Sylvia, Kan.
A.B. (Sterling College); Th.B. (Pittsburgh-Xenia Theological Seminary), Religion.	
Bryan, Thomas Conn	Skyland, N. C.
A.B. (Duke University); A.M. (University of North Carolina), History.	
Buchanan, Edith	Cullowhee, N. C.
A.B. (Meredith College), English, Philosophy.	
Calvert, Henry Woodrow	Atlanta, Ga.
B.S. (University of South Carolina), Sociology, Economics, Political Science.	
Capua, Julius Paul, II	Muskegon, Mich.
A.B. (Augustana College), History.	
Carroll, Howard	Easton, Md.
A.B. (University of Richmond); B.D. (Duke University), Religion.	
Chesnut, Doris Ray	Durham, N. C.
B.S. (Farmville State Teachers College), Political Science.	
Clark, Ellen Mercer	Atlee, Va.
A.B. (University of Richmond), Latin, Spanish.	
Clavering, Rose	Brooklyn, N. Y.
A.B. (Brooklyn College), English.	

* Special student first semester.

† Enrolled under special science calendar July 1, 1944-June 30, 1945.

- *Cohen, Eckford Larry Starkville, Miss.
B.S. (Mississippi State College), Mathematics, Philosophy.
- Collins, Herbert Brooklyn, N. Y.
A.B. (Brooklyn College), History.
- Cooke, Barbara Rice Washington, D. C.
A.B. (Duke University), English.
- Coolidge, Cary Nashville, Tenn.
A.B. (Blue Mountain College); A.M. (George Peabody College for Teachers), French, Spanish.
- Culbertson, Jack Arthur Nickelsville, Va.
A.B. (Emory and Henry College), German, Philosophy.
- Cummings, Anne Burt Stainback Pittsburgh, Pa.
A.B. (Hollins College), Psychology, Education.
- *Deal, Carl Hosea, Jr. Salisbury, N. C.
B.S. (Duke University), Chemistry.
- Deeds, John Milton Cary, N. C.
B.S. (West Virginia Wesleyan College), Education.
- Denny, Mary Rebecca Charlotte, N. C.
A.B. (Salem College); A.M. (Duke University), English.
- Dillingham, William Pyrlé Durham, N. C.
B.A.E. (University of Florida); M.S. (University of Tennessee), Economics.
- DuBose, Samuel Wilds Hillsboro, N. C.
A.B. (Davidson College); A.M. (Duke University); B.D. (Union Theological Seminary), Religion.
- Evans, Alona Elizabeth Durham, N. C.
A.B. (Duke University), Political Science.
- Evans, Robert Weldon Batesville, Ark.
A.B. (Hendrix College); B.D. (Duke University), Religion.
- *Field, Frank Henry Cliffside Park, N. J.
B.S., A.M. (Duke University), Chemistry.
- Flannery, Peggy Anne Strowd Durham, N. C.
A.B. (Duke University), English.
- Flansburgh, Clara Julina Staunton, Va.
A.B. (Maryland College); A.M. (Middlebury College), French.
- Fouch, Ann Orrville, Ohio
A.B. (Duke University), Zoology, English.
- Frase, Earline (Patty) Marie Peninsula, Ohio
A.B. (Ohio Northern University); A.M. (University of Denver), Psychology, Philosophy.
- Frey, Ellen Frances Durham, N. C.
A.B. (Barnard College); A.M. (Duke University), English.
- †Friese, Forest Fred Durham, N. C.
(Graduated from Concordia Theological Seminary), Philosophy, History.
- Gesling, Martha Myra Lancaster, Ohio
A.B. (Ohio Northern University); A.M. (Ohio State University), Education, Psychology.
- Giuliano, Jerry James Irvington, N. J.
B.S. (Duke University), Chemistry, Physics.
- Goodwin, Noma Lee Durham, N. C.
A.B. (Duke University), English.
- Green, Nancy Isobel Maxwell Durham, N. C.
A.B., A.M. (Duke University), History.

* Enrolled under special science calendar July 1, 1944-June 30, 1945.

† Special student.

- *Heim, Peggy
A.B. (Duke University), Economics. Sunbury, Pa.
- Heisey, Wilbur Lloyd
A.B. (Manchester College), History. Flint, Mich.
- Hertz, Hilda
A.B. (Skidmore College); A.M. (Duke University), Sociology, Economics. Forest Hills, L. I., N. Y.
- Hill, Henry Clyde, Jr.
B.S. in Ed., M.S. (University of Illinois), Zoology, Physiology. Chicago, Ill.
- Holder, Ray
A.B., A.M. (University of Mississippi); B.D. (Duke University), Religion. Henderson, N. C.
- Holman, Harriet R.
A.B. (Winthrop College); A.M. (University of Michigan), English. Anderson, S. C.
- Holton, Jean Morris
A.B. (Millsaps College), Zoology, English. Yazoo City, Miss.
- Horn, Herman Lionel
A.B. (Bridgewater College); A.M. (Duke University), Political Science, History. Mt. Solon, Va.
- Hornaday, John Albert
A.B. (Duke University), Psychology, Education. Henderson, N. C.
- Huff, Jesse William
B.S. (University of Pittsburgh), Biochemistry. Jeannette, Pa.
- Hull, Alma Louise
A.B. (Duke University), Psychology. Harrisburg, Pa.
- Johnson, Natalie Kristina
A.B. (Duke University), Spanish, French. Miami, Fla.
- Kesler, Daniel Karraker
A.B. (Wake Forest College), Philosophy, Psychology. Easton, Md.
- †Kingsbury, Ralph Norman
B.S. (Northeastern University), Chemistry, Physics. Milton, Mass.
- Kingston, Marion Josephine
A.B. (Mount Holyoke College), English. Melrose, Mass.
- Knox, Norman Davis
A.B. (Swarthmore College), English. Durham, N. C.
- Kreps, Clara Juanita Morris
A.B. (Berea College); A.M. (Duke University), Economics, Sociology. Norfolk, Va.
- Kreps, Clifton Holland, Jr.
B.A. (The College of William and Mary); A.M. (University of North Carolina), Economics. Norfolk, Va.
- Lair, Eugenie Dille
A.B. (Randolph-Macon Woman's College), Botany. Cynthiana, Ky.
- Levine, Bertram
A.B. (Duke University), Zoology, Psychology. Paterson, N. J.
- †Levine, Robert
A.B., A.M. (Dartmouth College), Chemistry. East Boston, Mass.
- Levitas, Nora
A.B. (Brooklyn College), Biochemistry. Brooklyn, N. Y.
- Lewis, Frank Bell
A.B., A.M. (Washington & Lee University); B.D., Th.M. (Union Theological Seminary), Religion. Maxwelton, W. Va.
- Little, Sue Allen Warren
A.B. (East Carolina Teachers College), Psychology. Durham, N. C.
- Luborsky, Lester Bernard
A.B. (Temple University); A.M. (Duke University), Psychology. Philadelphia, Pa.

* Candidate for the A.B. degree, May, 1945.

† Enrolled under special science calendar July 1, 1944-June 30, 1945.

- McClain, Howard Gordon Sherman, Texas
A.B. (Vanderbilt University); B.D. (Southern Baptist Theological Seminary), Religion.
- McGriff, Mary Emily Birmingham, Ala.
A.B. (Duke University), History, English.
- Mackie, Mary Mildred Granite Falls, N. C.
B.S. (Appalachian State Teachers College), English.
- *Manes, Milton Brooklyn, N. Y.
B.S. (College of the City of New York), Chemistry.
- *Marsh, Spinks Hamilton Monroe, N. C.
B.S. (Duke University), Chemistry, Physics.
- Matte, Lorenzo Quebec City, Canada
B.A. (Laval University); M.F. (Duke University), Forestry, Botany, Philosophy, Mathematics.
- Merriken, Ellenor Marie Federalsburg, Md.
A.B. (Washington College), English.
- Moore, Benjamin Franklin Oxford, N. C.
A.B. (University of Georgia); B.D. (Columbia Theological Seminary), Religion.
- *Moore, Edward James, Jr. Getzville, N. Y.
A.B. (University of Buffalo), Physics.
- *Mooring, Francis Paul Rocky Mount, N. C.
A.B. (Duke University), Physics, Mathematics.
- Moser, Harold Eugene Frederick, Md.
B.S. (Johns Hopkins University); A.M. (Teachers College, Columbia University), Education, Psychology.
- Muldraw, Mary Frances Milledgeville, Ga.
A.B. (Georgia State College for Women), French, Spanish.
- Nau, Walter Theodore Lexington, N. C.
A.B. (Guilford College); B.D. (Concordia Theological Seminary); A.M. (Duke University), French, Spanish.
- Osment, Cecile Daniel Durham, N. C.
A.B. (Bessie Tift College); A.M. (George Peabody College for Teachers), History.
- Pannill, Harry Burnell Staunton, Va.
A.B. (Randolph-Macon College); B.D. (Duke University), Religion.
- *Parker, Mary Ellen Roanoke, Va.
A.B. (Randolph-Macon Woman's College), Chemistry.
- Parks, Elizabeth Miriam Denver, Colo.
A.B. (Grinnell College), English.
- Patton, Dorothy Jean Beaver Falls, Pa.
A.B. (Geneva College), English.
- Peters, Frank Anthony Tuscaloosa, Ala.
A.B. (University of Alabama), History, Political Science.
- Pope, Hilda Persons Griffin, Ga.
A.B. (Georgia State College for Women), Bacteriology, Biochemistry.
- Purcell, Charles William, Jr. Huntington, W. Va.
A.B. (Marshall College), History, Political Science.
- *Rake, Margaret Evelyn Philadelphia, Pa.
B.S. (Duke University), Chemistry.
- Raymond, Ruth Durham, N. C.
A.B. (University of Chattanooga), Bacteriology.
- Rhodes, Daniel Durham Rocky Point, N. C.
A.B. (Davidson College); B.D. (Louisville Presbyterian Theological Seminary), Religion.

* Enrolled under special science calendar July 1, 1944-June 30, 1945.

- Richards, Claud Henry, Jr. Fort Worth, Texas
A.B. (Texas Christian University); A.M. (Duke University), Political Science.
- *Ringler, Betty Irene St. Petersburg, Fla.
B.S. (Florida State College for Women), Chemistry.
- Rogers, Dorothy Ashburn, Ga.
A.B., A.M. (University of Georgia), Education, Sociology.
- Rogolino, Mary Theresa St. Augustine, Fla.
A.B. (Florida State College for Women), Spanish, French.
- *Rosenbaum, Haskell Menachim Sunnyside, N. Y.
B.S. (College of the City of New York), Chemistry, Physics.
- Rudisill, Dorus Paul Chapel Hill, N. C.
A.B. (Lenoir-Rhyne College); A.M. (University of South Carolina); B.D. (Lutheran Theological Southern Seminary); S.T.M. (Hartford Theological Seminary), Religion.
- Salomon, Ann Douglass New London, Conn.
A.B. (Swarthmore College), Psychology, Education.
- Saltzman, Irving Jackson Dorchester, Mass.
B.S. (Massachusetts State College), Psychology, Education.
- Schafer, Thomas Anton E. Liverpool, Ohio
A.B. (Maryville College); B.D. (Louisville Presbyterian Theological Seminary), Religion, History.
- *Scheraga, Harold Abraham Durham, N. C.
B.S. (College of the City of New York); A.M. (Duke University), Chemistry.
- Scheraga, Miriam Kurnow Durham, N. C.
A.B. (Brooklyn College), Sociology.
- Schulze, Frances Elaine Pelham Manor, N. Y.
A.B. (Marshall College), Psychology, Philosophy.
- *Sell, Clyde Jacob Martinsburg, Pa.
B.S. (Juniata College), Physics.
- Shirey, William Arthur Durham, N. C.
A.B. (DePauw University); A.M. (Indiana University), Sociology.
- *Shivers, Joseph Clois, Jr. Riverton, N. J.
B.S., A.M. (Duke University), Chemistry.
- Smith, Mary Betty Springfield, Mo.
A.B. (Drury College), History, Sociology.
- Starr, Homer Pilgrim Burlington, N. C.
A.B. (The University of the South); B.D. (Virginia Theological Seminary), Religion.
- Tilden, Mary Weatherly Jamestown, N. C.
B.S. (Duke University), Biochemistry.
- Tomlinson, Muriel Dorothy Manchester, Conn.
A.B. (Bates College), French, Spanish.
- †Tompkins, James Kenneth Johnson City, N. Y.
A.B. (Duke University), Chemistry.
- Truscott, Ethel Irene Lomas de Zamora, Argentina
A.B. (Coker College), Religion.
- Turner, Anne Clara Albany, Ga.
A.B. (University of Georgia); A.M. (Duke University), Latin, Greek.
- *Tuttle, James Gray Raleigh, N. C.
A.B. (Duke University), Chemistry.
- *Vingiello, Frank Anthony Brooklyn, N. Y.
B.S. in Chem. (Polytechnic Institute of Brooklyn), Chemistry.

* Enrolled under special science calendar July 1, 1944-June 30, 1945.

† Special student; enrolled under special science calendar July 1, 1944-June 30, 1945.

- Volkin, Elliot
B.S. (Pennsylvania State College), Biochemistry, Chemistry. Mt. Pleasant, Pa.
- Wakefield, Troy Marshall
A.B. (West Virginia Wesleyan College); S.T.B., S.T.M. (Boston University), Latin, Religion. Kingwood, W. Va.
- *Walker, Howard George, Jr.
B.S. (Duke University), Chemistry. Westfield, N. J.
- Wall, Mildred Eugenia
A.B. (Birmingham-Southern College), History. Birmingham, Ala.
- Walter, Margaret Van Horne
A.B. (University of Illinois), English. Durham, N. C.
- *Warren, Margaret Elizabeth
A.B. (Duke University), Chemistry, Physics. Shaker Heights, Ohio
- *Weiss, Martin Joseph
A.B. (New York University), Chemistry. New York, N. Y.
- *Weith, Archie James, Jr.
A.B., A.M. (Duke University), Chemistry. Caldwell, N. J.
- Wellborn, Mary Moss
A.B. (Mississippi State College for Women), English. Starkville, Miss.
- Wellons, Janet Elaine
A.B. (Cornell College, Iowa), Sociology, Psychology. Pembroke, N. C.
- *Wicker, Gloria Louise
B.S. (Lander College), Chemistry. Greenwood, S. C.
- Wiggins, Elizabeth Lewis
A.B. (Winthrop College); A.M. (Duke University), English. Holly Hill, S. C.
- Wiggins, Pauline Evelyn
A.B. (University of Chattanooga), English. Birchwood, Tenn.
- Wiles, Charles Preston
A.B. (Washington College), Sociology. Brunswick, Md.
- Wilson, John Cullum
B.S. (Berry College), Education. Durham, N. C.
- Wilson, Ulrey Kaulbach
A.B. (University of Chattanooga), Education, Psychology. Durham, N. C.
- *Wissow, Lennard Jay
B.S. (Pennsylvania State College); A.M. (Duke University), Chemistry. Philadelphia, Pa.
- Wood, Virginia Loraine
A.B. (Roanoke College); A.M. (Duke University), Political Science, Economics, History. Roanoke, Va.
- Woodbridge, Charles Jahleel
A.B., A.M. (Princeton University); Th.B. (Princeton Theological Seminary), Religion. Salisbury, N. C.
- *Yost, Robert Stanley
B.S. (Pennsylvania State College), Chemistry. Pottsville, Pa.
- Young, Franklin Woodrow
A.B. (Dartmouth College); B.D. (Crozer Theological Seminary), Religion. Columbus, Ohio
- Zekowski, Arlene Jean
A.B. (Brooklyn College), French, Spanish. Brooklyn, N. Y.

SUMMER OF 1944; FIRST TERM

- Alam, Sadie Joan
B.S. in Educ. (Slippery Rock State Teachers College), Education. Aliquippa, Pa.
- Andre, Helen Valera
B.S. in Educ. (Slippery Rock State Teachers College), Education. Tarentum, Pa.
- Askew, Alice Washburn
A.B. (Queens-Chicora College); A.M. (Duke University), Education. Bostic, N. C.
- * Enrolled under special science calendar July 1, 1944-June 30, 1945.

- Autry, Randall Franklin Godwin, N. C.
A.B. (University of North Carolina), Education.
- Barnes, George Hector Logan, Utah
B.Sc.F. (University of Washington); M.S. (University of California), Forestry.
- Eates, Walter Murrie Richmond, Va.
A.B. (Randolph-Macon College), Education.
- Bayless, Flora Johnson Dunbar, W. Va.
A.B. (West Virginia Institute of Technology), Education.
- Beale, Alvin Francis Richmond, Va.
A.B. (College of William and Mary), Education
- Bennett, Jean Arline Brevard, N. C.
A.B. (Duke University), Spanish.
- Bentley, Nancy Joyce Durham, N. C.
A.B. (Duke University), Botany.
- Blakeslee, Edward Ray, Jr. Wilmington, N. C.
B.S. (East Stroudsburg State Teachers College), Education.
- Blakeslee, Verna Treat Wilmington, N. C.
B.S. (East Stroudsburg State Teachers College), Education.
- Blank, Olive Greenawalt Huntington, W. Va.
A.B. (Marshall College), English.
- Bomberger, Helen Mae Richland, Pa.
B.S. (West Chester State Teachers College), Education.
- Bonomi, Florence Margaret Aliquippa, Pa.
B.S. (Indiana State Teachers College, Pa.), Spanish.
- Bowman, Audria Mae McConnell, W. Va.
A.B. (Marshall College), Education.
- Bowman, Helen Jordan Bridgeville, Pa.
B.S. (State Teachers College, California, Pa.), Education.
- Brantley, Mabel Ruth Warner Robins, Ga.
B.S. in Educ. (Georgia State College for Women), English.
- Breece, Ruth Isobel Schoenberger Parkland, Pa.
A.B. (Duke University), English.
- Brim, Annie Evelyn Sasser, Ga.
A.B. (Georgia State Woman's College at Valdosta), English.
- Brokaw, Ruth Wilmina East Liverpool, Ohio
A.B. (Marietta College), Education.
- Brosius, Magdalene Hershey Atglen, Pa.
B.S. (West Chester State Teachers College), Education.
- Browning, Laurence Lonville Eptan Logan, W. Va.
B.S. (Illinois Institute of Technology), Education.
- Brownlee, William Hugh Sylvania, Kan.
A.B. (Sterling College); Th.B. (Pittsburgh-Xenia Theological Seminary), Religion.
- Bryson, Pauline Pressley Speedwell, N. C.
B.S. (Western Carolina Teachers College), Spanish.
- Bulwinkle, Muriel Charlton Gastonia, N. C.
A.B. (Duke University), English.
- Burts, Robert Milton, Jr. Honea Path, S. C.
A.B. (Berry College), History.
- Cardwell, Annie Irene Lynchburg, Va.
B.S. (State Teachers College, Radford, Va.), Education.
- Carpenter, Frances Myrtle Columbus, Ga.
B.S. (Georgia Teachers College, Collegeboro, Ga.), Education.
- Charie, Phyllis Leona Pittsburgh, Pa.
A.B. (University of Pittsburgh), Spanish.

- Chatfield, Margaret
A.B. (Duke University), Education. High Point, N. C.
- Chew, Jeanne Maurer
A.B. (Pennsylvania State College), Spanish. Pittsburgh, Pa.
- Clark, Mary Newlon Moomau
A.B. in Elem. Ed. (Davis and Elkins College), Education. Petersburg, W. Va.
- Cockerill, Martha Overton
B.S. (Madison College), Education. Purcellville, Va.
- Coker, Madge Phillips
A.B. in Ed. (University of Florida), Education. Sebring, Fla.
- Coleman, Virginia Lee
B.S. in Ed. (Farmville State Teachers College), Education. Warrenton, Va.
- Combs, James Howard
B.S. (Appalachian State Teachers College), Education, Sociology. Woodlawn, Va.
- Cooksey, Stella Marie
B.S. (Morris Harvey College), Education, Religion. Charleston, W. Va.
- Costan, Helen Arthur
B.S. in Ed. (Farmville State Teachers College), Education. Lynchburg, Va.
- Craig, Miriam
B.S. in Ed. (Georgia State College for Women, Milledgeville), Education. Columbus, Ga.
- Creath, William Fontaine
B.S. (University of Richmond), Education. South Boston, Va.
- Cummings, Anne Burt Stainback
A.B. (Hollins College), Psychology, Education. Pittsburgh, Pa.
- Curry, Lois Mae
A.B. (Westminster College), Education. S. Charleston, W. Va.
- Dail, Hilda Lee
A.B. (Piedmont College), English. Danville, Va.
- Dale, Dorothy Jeanne
A.B. (Murray State Teachers College), English. Murray, Ky.
- Day, Margaret Kathleen
B.S. (Appalachian State Teachers College), Education. Statesville, N. C.
- Dunn, Lucile
B.S. (Farmville State Teachers College), Education. Arlington, Va.
- Elliott, Edith Minerva
A.B. (Concord College), Education. Canebrake, W. Va.
- Facinoli, Adele
A.B. (New River State College), Education. Glasgow, W. Va.
- Fant, Alethea Blackmore
B.S. (Mary Washington College), Education. Warsaw, N. C.
- Flaherty, Anne Grace
B.S. in Ed. (Mansfield State Teachers College), Education. Pittston, Pa.
- Fletcher, Grace Elizabeth
A.B. (Duke University), Education. Durham, N. C.
- Foster, Sarah Lettice
A.B. (Winthrop College), A.M. (Columbia University), Spanish. Clifton, S. C.
- Frazee, Lora Miller
B.S. (Georgia State College for Women, Milledgeville), Education, Sociology. Thomaston, Ga.
- Garland, James Louis
B.S. in Ed. (Union College), Education. Lexington, Ky.
- Garrison, Evelyn Crutchfield
A.B. (Meredith College), Education, English. East Bend, N. C.

- | | |
|---|------------------------|
| George, Austin Holly
B.S. in Ed. (Ohio University), Education. | S. Parkersburg, W. Va. |
| George, Ida Maria
A.B. (East Carolina Teachers College), English, Spanish. | Comfort, N. C. |
| Gibson, Samuel Koonce
B.S. (Gettysburg College), Education. | DuBois, Pa. |
| Gibson, Walter Van Buren
B.S. in Ed. (State Teachers College, Troy, Ala.), Education. | East Tallassee, Ala. |
| Grose, Georgianna Mary
A.B. (Marshall College), Education. | Huntington, W. Va. |
| Hamlin, Griffith Askew
A.B. (Atlantic Christian College); M.R.E. (College of the Bible, Lexington, Ky.), Religion. | Richlands, N. C. |
| Hammock, Ivy Leona Coil
B.A.E. (University of Florida), Education. | Largo, Fla. |
| Hanks, Thomas Edgar
B.S. (Radford State Teachers College), Education, Sociology. | Galax, Va. |
| Hartman, Emma Louise
A.B. (Florida State College for Women), Education. | Pensacola, Fla. |
| Heagy, Dorothy May
B.S. in Ed. (Millersville State Teachers College), Education. | York, Pa. |
| Hendler, Cornelia Clara
B.S. (Buffalo State Teachers College), Education. | Buffalo, N. Y. |
| Hepler, Hannah Elizabeth
B.S. in Ed. (Slippery Rock State Teachers College), Economics, English. | Natrona, Pa. |
| Hess, Catharine Mary
B.S. in Elem. Ed. (West Chester State Teachers College), Education. | Norristown, Pa. |
| Hiers, Marion Manning
B.L., A.B. (Flora Macdonald College), Religion. | Orangeburg, S. C. |
| Hill, Ione Smith
LL.B. (Converse College), Education, Sociology. | Miami Beach, Fla. |
| Huff, Jesse William
B.S. (University of Pittsburgh), Biochemistry. | Jeannette, Pa. |
| Hughes, Dorothy
A.B. (Randolph-Macon Woman's College); A.M. (Columbia University), Economics. | Evington, Va. |
| Humphrey, Elizabeth Marie
A.B. (Earlham College), Psychology. | Indianapolis, Ind. |
| Johnson, Rosemary Veronica
B.S. in Ed. (Wilson Teachers College), Education. | Chevy Chase, Md. |
| Joyner, Alma Luna
B.S. (Appalachian State Teachers College), Education. | Zebulon, N. C. |
| Kelly, Kathleen Eliza
A.B. (Ohio University), Education, English. | Warren, Ohio |
| Kendig, Anna Mae
B.S. in Ed. (Millersville State Teachers College), Education. | Conestoga, Pa. |
| Kern, Mary Katherine
A.B. (Goucher College), English. | Winchester, Va. |
| Kincer, Jamie Graham
A.B. (Emory and Henry College), History. | Wytheville, Va. |
| Kracke, Buford Mae
B.S. (Florence State Teachers College, Ala.), Education. | Hartselle, Ala. |
| Krathwohl, Betty Augenstine
B.S. (Alfred University), Zoology. | Silver Creek, N. Y. |

- Kreamer, Mary Ida
B.S. in Elem. Ed. (West Chester State Teachers College), Education. Annville, Pa.
- Leete, Mortimer Uriel
A.B., A.M. (Marshall College), Education. Meadow Bridge, W. Va.
- Leffler, Alice Frederick
B.S. in Home Ec. (Hood College), Education. Elkton, Md.
- Levine, Bertram
A.B. (Duke University), Zoology. Paterson, N. J.
- Lewis, Nancy Eloise
A.B. (Denison University), English. Canton, Ohio
- Lisle, Edith Elizabeth
A.B. (Duke University), Education. Atlanta, Ga.
- Loveless, Ruth
A.B. (Florida State College for Women), English. Mt. Dora, Fla.
- Luborsky, Lester Bernard
A.B. (Temple University); A.M. (Duke University), Psychology. Philadelphia, Pa.
- McAndrew, Florence Helton
A.B. (Mary Baldwin College); A.M. (Northwestern University), Sociology. Chicago, Ill.
- McCurdy, John Albert
B.S. in Ed. (Rutgers University), Education. Matawan, N. J.
- McCutchan, John Wilson
A.B. (Davidson College); A.M. (University of Virginia), English. Charlotte, N. C.
- McGogney, Anna I.
B.S. (University of Pittsburgh), Education. Clairton, Pa.
- McLennan, Marietta
A.B. (Woman's College of the University of North Carolina), Education. Greensboro, N. C.
- MacNeill, Doris Elaine
B.S. (New Jersey State Teachers College at Glassboro), Education. Pennsgrove, N. J.
- McNeill, Ellis Meade
A.B. (Concord State Teachers College); M.S. (West Virginia University), Botany. Athens, W. Va.
- Mackay, Pauline Peeler
A.B. (Winthrop College), Education, Sociology. Orangeburg, S. C.
- Mallernee, Evelyn Lucille
B.S. in Ed. (Ohio State University), Education. Sebring, Ohio
- Marr, Claude Canie
A.B. (Duke University), Education. Asheville, N. C.
- Martin, Howell Calhoun
B.S. in Ed. (Georgia Teachers College, Collegeboro, Ga.), Education. Patterson, Ga.
- Mason, Clarence Herbert
A.B. in Ed. (University of North Carolina), Education. Timberlake, N. C.
- Mathias, Ama Avis
B.S. (Madison College), Education. Mathias, W. Va.
- Mathias, Audrie Lynn
B.S. (Madison College), Education. Mathias, W. Va.
- Matthews, Hester Poole
A.B. (Winthrop College), Spanish. Bennettsville, S. C.
- Meisenhelder, Nina May
B.S. in Ed. (Millersville State Teachers College), Education. Lancaster, Pa.
- Miller, Marguerite Guy
A.B. (Florida State College for Women), History. St. Petersburg, Fla.
- Mitchell, Edith Myrl
A.B. (Tusculum College), History. Greeneville, Tenn.

- Moore, Bruce Lipscomb Columbia, S. C.
A.B. (Coker College), English.
- Moore, Nelle Elizabeth Raleigh, Tenn.
A.B. (Lambuth College), English, Education.
- Morris, Paul Tidwell Chattanooga, Tenn.
B.S. (Memphis State Teachers College), Education.
- Morrison, Kathleen McLean Pensacola, Fla.
A.B. (Florida State College for Women), Education.
- Norberg, Carl Gustav East Aurora, N. Y.
A.B. (Marshall College), Education.
- Oates, Julia Neagle Kannapolis, N. C.
A.B. (Woman's College of the University of North Carolina), English, Education.
- Parker, Edna Earl West Palm Beach, Fla.
A.B. (Florida State College for Women), Education.
- Patterson, Sue Lavinia Daytona Beach, Fla.
B.S. (Florida Southern College), Education.
- Patton, Dorothy Jean Beaver Falls, Pa.
A.B. (Geneva College), English.
- Payne, Hura Harrison Johnsons Mill, Va.
A.B. (Berea College), Education.
- Peebles, Robert Bruce Cuyahoga Falls, Ohio
A.B., B.S. in Ed. (Kent State University), English.
- Pettenati, Yolanda Bona Crosby, Pa.
B.S. in Ed. (Lock Haven Teachers College), Education.
- Pitts, Mabel Davidson Jacksonville, Fla.
B.S. in Ed. (Georgia State College for Women), Education.
- Poger, Irene Ruth Oriskany, N. Y.
A.B. (New York State College for Teachers), Education.
- Poggy, Violette Elizabeth Millersville, Pa.
B.S. in Ed. (Millersville State Teachers College), Education.
- Prillaman, Mary Jane Southern Pines, N. C.
B.E. (Teachers College of Connecticut, New Britain, Conn.), Education, Sociology.
- Pritchard, Willie Stephenson Seaboard, N. C.
A.B. (Woman's College of the University of North Carolina), History, English.
- Puckette, Cornelia Christine Gladys, Va.
A.B. (College of William and Mary), Education, Sociology.
- Pyle, Katherine Asenath Burgettstown, Pa.
A.B. (Pennsylvania College for Women), English.
- Reed, Bruce Charleston, W. Va.
A.B. (Glenville State Teachers College), Education.
- Roberts, Dorothy Dean Hamilton, Ohio
B.S. (Miami University), Education.
- Rosinski, Sophie Anne Erie, Pa.
A.B. (Villa Maria College), Education.
- Salley, Claudia Louise Asheville, N. C.
A.B. (University of Tennessee), History.
- Sample, Kathleen Jacksonville, Fla.
A.B. (John B. Stetson University), Botany, Zoology.
- Scarboro, Louise Bernice Stillmore, Ga.
A.B. (Georgia State College for Women, Milledgeville), English.
- Shank, Geraldine Cleo Schuylkill Haven, Pa.
B.S. in Ed. (Shippensburg State Teachers College), Education.

- Shankle, Carl Edward
B.S. (Clarion State Teachers College), Education. Morganton, N. C.
- Sharp, Grace Moore
A.B. (Davis and Elkins College), Education. Huntersville, W. Va.
- Shelhamer, Ferne Ruth
B.S. (Kutztown State Teachers College), Education. Richland, Pa.
- Seutherland, Myra Azalene
A.B. (East Carolina Teachers College), Education. Wilmington, N. C.
- Spears, Julius Hubert
A.B. (Mercer University); Th.M. (Southern Baptist Theological Seminary), Religion. Chatham, Va.
- Spencer, Elizabeth
A.B. (Belhaven College); A.M. (Vanderbilt University), English. North Carrollton, Miss.
- Stockard, Adrian Ebenezer
B.S. (Southwestern University), Mathematics, Education. Grenada, Miss.
- Stone, Ann
A.B. (Millsaps College), Spanish. Jackson, Miss.
- Stoner, Aaron Hess
B.S. (Millersville State Teachers College), Education. Silver Spring, Md.
- Storch, Margaret Rees
A.B. (Cedar Crest College), Sociology, Religion. Allentown, Pa.
- Stump, Elizabeth Bell
A.B. (University of Akron), Education. Akron, Ohio
- Tanner, Agnes Mae Vicars
B.S. (Radford State Teachers College), Education. Rocky Ford, Colo.
- Templeton, Grace Lynn
A.B. (Winthrop College), Education. Charleston, S. C.
- Thomas, Cecil Kermit
A.B. (Manhattan Bible College); A.M., B.D. (Phillips University), Religion. Kimberlin Hgts., Tenn.
- Thomas, Mary Louise
B.S. (Indiana State Teachers College, Pa.), Education. Aliquippa, Pa.
- Trammell, Frances Mauldin
B.S., M.S. (Alabama Polytechnic Institute), English. Auburn, Ala.
- Truscott, Ethel Irene
A.B. (Coker College), English. Lamos de Zamora, Argentina
- Walker, Thelma Pauline
B.S. (State Teachers College, Johnson City, Tenn.), History. Johnson City, Tenn.
- Wallschlaeger, Elinor
B.S. in Ed. (Milwaukee State Teachers College), Education. Milwaukee, Wis.
- Walter, Margaret Van Horne
A.B. (University of Illinois), English. Durham, N. C.
- Walters, Margaret Genevieve
A.B. (Washington College), Education. Galena, Md.
- Watts, Amanda Josephine
A.B. (University of Texas), English. Bryan, Texas
- Weir, Marie Janette
B.S. in Ed. (West Chester State Teachers College), Education. Ivyland, Pa.
- Wiley, Virginia
A.B. (Randolph-Macon Woman's College), English. Lynchburg, Va.
- Wilkinson, Connie Wallis
A.B. in Ed. (Florida State College for Women), Education. Tallahassee, Fla.
- Wilson, Robert Seth
B.S. (College of Wooster), Education. Ashtabula, O.

Woodward, Leonard Groninger A.B. (Duke University), Education.	Garland, N. C.
Zeigler, Frances Chambers B.S. (Florida Southern College), Education, Sociology.	Tampa, Fla.

SUMMER OF 1944; SECOND TERM

Barnes, George Hector B.Sc.F. (University of Washington); M.S. (University of California), Forestry.	Logan, Utah
Bayless, Flora Johnson A.B. (West Virginia Institute of Technology), Education.	Dunbar, W. Va.
Beale, Alvin Francis A.B. (College of William and Mary), Education.	Richmond, Va.
Blakeslee, Edward Ray, Jr. B.S. (East Stroudsburg State Teachers College), Education.	Wilmington, N. C.
Bowman, Audria Mae A.B. (Marshall College), Education.	McConnell, W. Va.
Brantley, Mabel Ruth B.S. in Ed. (Georgia State College for Women), English.	Warner Robins, Ga.
Brim, Annie Evelyn A.B. (Georgia State Woman's College at Valdosta), English.	Sasser, Ga.
Brownlee, William Hugh A.B. (Sterling College); Th.B. (Pittsburgh-Xenia Theological Seminary), Religion, Education.	Sylvia, Kan.
Burts, Robert Milton, Jr. A.B. (Berry College), History.	Honea Path, S. C.
Cardwell, Annie Irene B.S. (State Teachers College, Radford, Va.), Education.	Lynchburg, Va.
Chatfield, Margaret A.B. (Duke University), Education.	High Point, N. C.
Cooksey, Stella Marie B.S. (Morris Harvey College), Education, Religion.	Charleston, W. Va.
Cummings, Anne Burt Stainback A.B. (Hollins College), Education.	Pittsburgh, Pa.
Curry, Lois Mae A.B. (Westminster College), Education.	S. Charleston, W. Va.
Cushing, Mary Louise B.Pd. (Jamaica Training School for Teachers), Education.	Jackson Heights, N. Y.
Dale, Dorothy Jeanne A.B. (Murray State Teachers College), English.	Murray, Ky.
Elliott, Edith Minerva A.B. (Concord College), Education.	Canebrake, W. Va.
Fant, Alethea Blackmore B.S. (Mary Washington College), Education.	Warsaw, N. C.
Flaherty, Anne Grace B.S. in Ed. (Mansfield State Teachers College), Education.	Pittston, Pa.
Frazee, Lora Miller B.S. (Georgia State College for Women, Milledgeville), Education.	Thomaston, Ga.
Garland, James Louis B.S. in Ed. (Union College), Education.	Lexington, Ky.
Garrison, Evelyn Crutchfield A.B. (Meredith College), Education.	East Bend, N. C.
Gibson, Samuel Koonce B.S. (Gettysburg College), Education.	DuBois, Pa.

- Gibson, Walter Van Buren East Tallassee, Ala.
B.S. in Ed. (State Teachers College, Troy, Ala.), Education.
- Grose, Georgianna Mary Huntington, W. Va.
A.B. (Marshall College), Education.
- Hammock, Ivy Leona Coil Largo, Fla.
B.A.E. (University of Florida), Education.
- Hanks, Thomas Edgar Galax, Va.
B.S. (Radford State Teachers College), Education.
- Hepler, Hannah Elizabeth Natrona, Pa.
B.S. in Ed. (Slippery Rock State Teachers College), Economics, English.
- Huff, Jesse William Jeannette, Pa.
B.S. (University of Pittsburgh), Biochemistry.
- Jakes, Frank Henry, Jr. Newark, Ohio
A.B. (Otterbein College); B.E. (University of Cincinnati), Education.
- Johnson, Rosemary Veronica Chevy Chase, Md.
B.S. in Ed. (Wilson Teachers College), Education.
- Kelly, Kathleen Eliza Warren, Ohio
A.B. (Ohio University), Education, English.
- Leffler, Alice Frederick Elkton, Md.
B.S. in Home Ec. (Hood College), Education.
- Lewis, Nancy Eloise Canton, Ohio
A.B. (Denison University), English.
- Lisle, Edith Elizabeth Atlanta, Ga.
A.B. (Duke University), Education.
- Loveless, Ruth Mt. Dora, Fla.
A.B. (Florida State College for Women), English.
- Luborsky, Lester Bernard Philadelphia, Pa.
A.B. (Temple University); A.M. (Duke University), Psychology.
- McCurdy, John Albert Matawan, N. J.
B.S. in Ed. (Rutgers University), Education.
- MacNeill, Doris Elaine Penns Grove, N. J.
B.S. (New Jersey State Teachers College at Glassboro), Education.
- Mackay, Pauline Peeler Orangeburg, S. C.
A.B. (Winthrop College), Education.
- Marr, Claude Canie Asheville, N. C.
A.B. (Duke University), Education.
- Martin, Thomas Leon Roanoke Rapids, N. C.
A.B. (Duke University), Education.
- Meisenhelder, Nina May Lancaster, Pa.
B.S. in Ed. (Millersville State Teachers College), Education.
- Miller, Marguerite Guy St. Petersburg, Fla.
A.B. (Florida State College for Women), History, English.
- Mitchell, Edith Myrl Greeneville, Tenn.
A.B. (Tusculum College), History.
- Moore, Nelle Elizabeth Raleigh, Tenn.
A.B. (Lambuth College), English.
- Morris, Paul Tidwell Chattanooga, Tenn.
B.S. (Memphis State Teachers College), Education.

Norberg, Carl Gustav A.B. (Marshall College), Education.	Lewisburg, W. Va.
Patton, Dorothy Jean A.B. (Geneva College), English.	Beaver Falls, Pa.
Pitts, Mabel Davidson B.S. in Ed. (Georgia State College for Women), Education.	Jacksonville, Fla.
Poger, Irene Ruth A.B. (New York State College for Teachers), Education.	Oriskany, N. Y.
Poggy, Violette Elizabeth B.S. (Millersville State Teachers College), Education.	Millersville, Pa.
Puckette, Cornelia Christine A.B. (College of William and Mary), Education.	Gladys, Va.
Reed, Bruce A.B. (Glenville State Teachers College), Education.	Charleston, W. Va.
Rosinski, Sophie Anne A.B. (Villa Maria College), Education.	Erie, Pa.
Sample, Kathleen A.B. (John B. Stetson University), Botany, Zoology.	Jacksonville, Fla.
Sewell, Agnes Eleanor B.S. (State Teachers College, Towson, Md.), Education.	Baltimore, Md.
Shankle, Carl Edward B.S. (Clarion State Teachers College), Education.	Morgantown, N. C.
Sharpe, Annie Lane B.S. (Georgia State College for Women), Education, History.	Rocky Ford, Ga.
Spears, Julius Hubert A.B. (Mercer University); Th.M. (Southern Baptist Theological Seminary), Religion.	Chatham, Va.
Trammell, Frances Mauldin B.S., M.S. (Alabama Polytechnic Institute), English.	Auburn, Ala.
Truscott, Ethel Irene A.B. (Coker College), English	Lomas de Zamora, Argentina
Wiley, Virginia A.B. (Randolph-Macon Woman's College), English.	Lynchburg, Va.
Wilson, Robert Seth B.S. (College of Wooster), Education	Ashtabula, Ohio
Woodward, Leonard Groninger A.B. (Duke University), Education.	Garland, N. C.

THE DIVINITY SCHOOL

SENIOR YEAR

Ausley, Paul Kenneth B.S., Florida Southern College, 1942.	Franklinville, N. C.
Bailey, Ulysses Grant A.B., Emory and Henry College, 1943.	McComas, W. Va.
Beal, Paul R. A.B., Morris Harvey College, 1942.	Glenville, W. Va.
Belcher, Arnold Dwane A.B., Emory and Henry College, 1942.	Hinton, W. Va.
Boone, Sidney Grant A.B., Duke University, 1934.	Nashville, N. C.
Booth, Robert Irvin A.B., University of Richmond, 1932.	Blairs, Va.
Brickhouse, Ernest Fielding A.B., Elon College, 1941.	Norfolk, Va.

- Brinson, John Clinton
A.B., Kentucky Wesleyan College, 1942. Louisville, Ky.
- Byrum, Roy Delbert
A.B., High Point College, 1941. Charlotte, N. C.
- Conley, George Frederick
A.B., Wofford College, 1938. Charlotte, N. C.
- Cooke, Jack Homer
A.B., Lenoir-Rhyne College, 1942. Maiden, N. C.
- Dirks, Dwight Warren
A.B., Dakota Wesleyan University, 1942. Tyndall, S. D.
- DuBose, Robert Newsom
A.B., Wofford College, 1936. Florence, S. C.
- Ehlhardt, George Brinkmann
A.B., John B. Stetson University, 1938. St. Louis, Mo.
- Everett, Caleb Roy, Jr.
A.B., Randolph-Macon College, 1942. Newsoms, Va.
- Ford, Jesse Emerson, Jr.
A.B., Wofford College, 1941. Nashville, Tenn.
- Fridley, Robert Daniel
A.B., Randolph-Macon College, 1942. Cambria, Va.
- Fuqua, Robert Meek
A.B., Duke University, 1943. Bluefield, W. Va.
- Glenn, Henry Clarence, III
A.B., Duke University, 1938. Durham, N. C.
- Greene, Franklin William
A.B., Baker University, 1942. St. Louis, Mo.
- Hamm, John Madison
A.B., High Point College, 1942. Tobaccoville, N. C.
- Harbuck, George Welcome
B.S., University of Houston, 1938. Timpson, Tex.
- Ingram, Osmond Kelly
A.B., Birmingham-Southern College, 1940. Wilmington, N. C.
- Jackson, Lester Polk, Jr.
A.B., Texas College of Mines, 1942. El Paso, Tex.
- Jolly, Joseph Ralph
A.B., Birmingham-Southern College, 1942. Tallassee, Ala.
- Jones, Haniel
A.B., Millsaps College, 1942. Phenix City, Ala.
- Jones, Murray Hughlon
A.B., Teachers College of Kansas City, 1942. Kansas City, Mo.
- Jordan, John Sharpe
A.B., Duke University, 1940. West Jefferson, N. C.
- Lowder, John Albert
A.B., High Point College, 1942. Mocksville, N. C.
- McCarver, Clyde Gay
A.B., University of Georgia, 1942. Vidette, Ga.
- McCoy, Charles Sherwood
A.B., University of North Carolina, 1943. Laurinburg, N. C.
- McGinnis, James William
A.B., Guilford College, 1942. Salisbury, N. C.
- Miller, Gilbert Shelly
A.B., Lenoir-Rhyne College, 1940. Greensboro, N. C.
- Moore, Jack Warren
A.B., Olivet College, 1934. Raleigh, N. C.

Needham, George Harlan A.B., High Point College, 1941.	Randleman, N. C.
Oglesby, Glynn Aubrey A.B., Wofford College, 1943.	Selma, Ala.
Perry, Charles Streamburg A.B., Kentucky Wesleyan College, 1942.	Paintsville, Ky.
Pfisterer, Fred Russell A.B., Kentucky Wesleyan College, 1943.	Louisville, Ky.
Polk, Charles A.B., Wofford College, 1942.	Varnville, S. C.
Preston, Norman G., Jr. B.S., Louisiana State University, 1940.	Shreveport, La.
Purcell, Eugene George, Jr. A.B., Duke University, 1942.	Erwin, N. C.
Ray, Milton Undrel A.B., West Virginia Wesleyan College, 1942.	Cambridge, Md.
Regan, James Robert A.B., Duke University, 1928.	Mamers, N. C.
Ridenhour, Henry Isley A.B., High Point College, 1942	Seagrove, N. C.
Ritchie, Adam Greig A.B., Guilford College, 1944.	Chapel Hill, N. C.
Sales, Reames Hawthorne A.B., Hendrix College, 1942.	Forrest City, Ark.
Sturtevant, William Lyons A.B., Randolph-Macon College, 1939.	Portsmouth, Va.
Todd, Aubrey Clayton A.B., Elon College, 1936.	Sanford, N. C.
Tucker, Roger Wilkins A.B., High Point College, 1943.	Madison, N. C.
Turner, Archer Rudder A.B., Lynchburg College, 1942.	Lynchburg, Va.
Vereen, LaFon Carpenter B.S., Clemson College, 1941.	Latta, S. C.
Waugh, Ray Paschal A.B., Lenoir-Rhyne College, 1942.	Hiddenite, N. C.
Wellons, Albert Wilson A.B., Lenoir-Rhyne College, 1940.	Morganton, N. C.
Williams, Harley Morrison A.B., High Point College, 1942.	Salisbury, N. C.

MIDDLE YEAR

Adamson, Malcolm Monroe A.B., Athens College, 1943.	Goodwater, Ala.
Atkeison, Gordon Rush A.B., Birmingham-Southern College, 1939.	Clover, Va.
Barnes, Edwin Edward A.B., Southwest Missouri State Teachers College, 1943.	Licking, Mo.
Bostick, Joseph Kent A.B., High Point College, 1944.	Raleigh, N. C.
Bowers, Daniel P. Saylor A.B., Franklin and Marshall College, 1943.	Waynesboro, Pa.
Bull, Robert Jehu A.B., Randolph-Macon College, 1943.	Norfolk, Va.

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|---|---------------------|
| Chrisman, Myron Wayne
A.B., Phillips University.* | Lawton, Okla. |
| Cline, John Maxwell
A.B., Duke University, 1943. | Durham, N. C. |
| Clouse, Walter Jacob
A.B., Adrian College, 1944. | Aspinwall, Pa. |
| Cochran, James Edgar
A.B., Wofford College, 1943. | Kannapolis, N. C. |
| Cofer, Gilbert Francis
A.B., Emory and Henry College, 1943. | Alderson, W. Va. |
| Crouse, Kenneth Dewey
A.B., High Point College, 1943. | Lexington, N. C. |
| Curtis, Myers Blondon
A.B., Southwestern University, 1944. | Rosebud, Tex. |
| Dail, Francis Roderick
B.S., East Tennessee State College, 1941. | Danville, Va. |
| Dalton, George Willie
A.B., High Point College, 1943. | Lewisville, N. C. |
| Dennis, Arthur Williams
A.B., West Virginia Wesleyan College, 1943. | Nassawadox, Va. |
| Dennis, Paul Martin
A.B., Wake Forest College, 1943. | Mt. Gilcad, N. C. |
| Durham, Donald William
A.B., Union College, 1943. | Reidsville, N. C. |
| Edwards, John Paul
A.B., Duke University, 1944. | Clinton, N. C. |
| Elrod, Elton Welborn
A.B., Southwestern University, 1943. | Palestine, Tex. |
| Fowler, Francis Wiley
B.S., Davidson College, 1944. | Charlotte, N. C. |
| Gitlin, Emmanuel Moiseyevich
A.B., Texas Christian University, 1944. | Chicago, Ill. |
| Glass, Ernest Wilson
A.B., Wake Forest College, 1944. | Sanford, N. C. |
| Harrell, Leighton Ernest, Jr.
A.B., University of Maryland, 1943. | Hyattsville, Md. |
| Hughes, Miles Preston
A.B., University of Alabama, 1943. | Gadsden, Ala. |
| Huston, Hollis
A.B., Willamette University, 1944. | Salem, Ore. |
| Johnson, Carl Anderson
A.B., Wofford College, 1943. | Elon College, N. C. |
| Johnson, Jesse Louis, Jr.
A.B., High Point College, 1943. | Siler City, N. C. |
| Jones, Norwood Lee
A.B., High Point College, 1944. | Clayton, N. C. |
| Lipe, Godfrey Frederick
A.B., Wake Forest College, 1943. | Asheville, N. C. |
| McCleskey, Walter Scott
A.B., Emory University, 1942. | Waycross, Ga. |
| Madren, Weldon Thomas
A.B., Elon College, 1943. | Burlington, N. C. |
| Mims, Ulus Eugene
A.B., University of Alabama, 1944. | Newville, Ala. |

* Degree to be conferred.

Morgan, Colby Shannon A.B., Elon College, 1944.	Eagle Springs, N. C.
Oliphint, Benjamin Ray A.B., Southern Methodist University, 1944.	Shreveport, La.
Peery, John Franklin A.B., Southern Methodist University, 1943.	Fort Worth, Tex.
Perkins, Theodore Edison B.S., Western Carolina Teachers College, 1939.	Goldsboro, N. C.
Petteway, Warren Bernard A.B., Wofford College, 1941.	Kinston, N. C.
Risinger, Melvin Smith A.B., West Virginia Wesleyan College, 1943.	Moundsville, W. Va.
Rowland, Ray Marion B.S., East Tennessee State College, 1943.	Jonesboro, Tenn.
Rutledge, Thomas Edgar, Jr. A.B., Trinity University, 1943.	Childress, Tex.
Sampselle, William DeVries A.B., University of Maryland, 1943.	Mt. Rainier, Md.
Smiley, Donald Gilbert A.B., Fresno State College, 1943.	Fresno, Calif.
Stanfield, Claude Edwin A.B., Florida Southern College, 1943.	Sarasota, Fla.
Swink, Ray Franklin A.B., High Point College, 1944.	Lexington, N. C.
Townsend, Harold Lee A.B., Wake Forest College, 1943.	Fayetteville, N. C.
Wells, Robert Newton A.B., Wofford College, 1943.	Manning, S. C.
White, Charles Denny A.B., High Point College, 1939.	Durham, N. C.
Wynn, Coy Wilton A.B., Louisiana State College, 1941; M.A., Louisiana State University, 1942.	Sicily Island, La.
Young, Alvin Clyde A.B., Concord College, 1943.	Buffalo, W. Va.

JUNIOR YEAR

Adams, Gilreath Gilderoy, Jr. A.B., Duke University, 1945.	Charlotte, N. C.
Allen, Ray Maxwell A.B., Southwestern College, 1944.	Memphis, Tenn.
Andes, Mark Winston A.B., Elon College, 1944.	Harrisonburg, Va.
Barrett, Troy James A.B., Wofford College, 1944.	Fayetteville, N. C.
Blanton, William Webster A.B., Davidson College, 1944.	Troutman, N. C.
Branton, Theodore Ray A.B., Centenary College, 1945.	Vivian, La.
Burgin, William Grady A.B., Wofford College, 1942.	Marion, N. C.
Carter, John William A.B., High Point College, 1945.	Yanceyville, N. C.
Coffin, Wayne Wesley A.B., Southwestern University, 1944.	Miami, Tex.

Combs, William Price A.B., Duke University, 1944.	Greensboro, N. C.
Cooley, Arthur Paul A.B., Hendrix College, 1943.	Scranton, Ark.
Crowder, William Rankin A.B., Guilford College, 1944.	Greensboro, N. C.
Dean, Garland Carlton, Jr. A.B., Millsaps College, 1944.	Colfax, La.
Dunlap, Irwin Grant A.B., Albion College, 1944.	Algonac, Mich.
England, Perry William A.B., High Point College, 1945.*	Gastonia, N. C.
Farrell, Earl Thompson A.B., Elon College, 1944.	Pittsboro, N. C.
Groscup, Stacy LaGrande A.B., Morris Harvey College, 1945.	Hamlin, W. Va.
Harbin, Melton Edward A.B., High Point College, 1945.	Archdale, N. C.
Hartz, John Leslie B.S., Central Missouri State Teachers College, 1944.	St. Louis, Mo.
Harwell, Robert William A.B., University of North Carolina, 1942.	Mooreville, N. C.
Haskew, John Bishop, Jr. A.B., Athens College, 1944.	Lower Peach Tree, Ala.
Howard, Robert Crawford A.B., University of Alabama, 1944.	Mobile, Ala.
Hurley, John Bernard A.B., Catawba College, 1944.	Asheboro, N. C.
James, Howard Glenn A.B., Atlantic Christian College, 1944.	Winterville, N. C.
Johnson, Joseph Stephens A.B., High Point College, 1944.	Lake Junaluska, N. C.
Jordan, Linwood Ray A.B., Wake Forest College, 1942.	Wilmington, N. C.
Kinlaw, Grover Cleveland A.B., Wake Forest College, 1940.	Lumberton, N. C.
McCrimmon, John Holmes A.B., Wake Forest College, 1941.	Carthage, N. C.
McDonald, Walter Neill A.B., Duke University, 1944.	Durham, N. C.
Maides, John Thomas A.B., High Point College, 1944.	Maysville, N. C.
Meacham, William Franklin A.B., Elon College, 1944.	Chapel Hill, N. C.
Meredith, McLaurin Mayers B.S., Southwestern University, 1945.	Dallas, Tex.
Miller, Clairmont Thaw, Jr. A.B., Morris Harvey College, 1944.	Sissonville, W. Va.
Morton, Vernon Adams A.B., High Point College, 1931.	Jamestown, N. C.
Parker, Wilson Roy A.B., Wofford College, 1941.	Cassatt, S. C.

* Degree to be conferred.

Reynolds, James William, Jr. A.B., Randolph-Macon College, 1945.	Hampton, Va.
Rumbly, George McClellan A.B., Union College, 1944.	Brownsville, Ind.
Scoggins, Eugene King A.B., Wofford College, 1944.	Olanta, S. C.
Schrader, Albert John A.B., Mount Union College, 1944.	Pittsburgh, Pa.
Seals, Daniel Hilton A.B., University of North Carolina, 1945.	Rae ford, N. C.
Short, Raymond Everett A.B., Willamette University, 1944.	Emmett, Ind.
Smith, Edward Franklin A.B., Duke University, 1945.*	Fayetteville, N. C.
Smith, James Bert A.B., Birmingham-Southern College, 1944.	Chipley, Fla.
Spitzkeit, James Walton A.B., Centenary College, 1944.	Gulfport, Miss.
Thomas, Kenneth Maxwell A.B., Austin College, 1944.	Dallas, Tex.
Villines, Floyd Galloway, Jr. A.B., University of Arkansas, 1941.	Elm Springs, Ark.
Way, Robert Bradford A.B., University of South Carolina, 1945.	Ridgeland, S. C.
Wethington, Lewis Elbert A.B., Wake Forest College, 1944.	Durham, N. C.
Winberry, Herman Stanford A.B., Duke University, 1944.	Mount Olive, N. C.
Zinn, Warren Gamaliel A.B., Alderson Broddus College, 1943.	Philippi, W. Va.

THE SCHOOL OF LAW

FIRST YEAR

Chappell, Stanton Harry B.S., University of Maryland, 1945.	Candor, N. C.
Dale, William House B.A., Vanderbilt University, 1944.	Columbia, Tenn.
Doig, William Dunsmore Duke University, 1941-44.	Packanack Lake, N. J.
Garcia, Efrain A.B., Louisiana State University, 1940.	Santurce, P. R.
Gupton, Willis Fletcher B.S., High Point College, 1944.	Hollister, N. C.
Holcombe, Lynn Montayne, Jr. Duke University, 1940-44.	Roselle, N. J.
Horne, Robert Darley B.S., University of Georgia, 1940.	Cordele, Ga.
Jones, James M., Jr. B.A., Vanderbilt University, 1944; School of Law, 1944.	Lewisburg, Tenn.
Lloyd, Thomas Reese A.B., Ohio State University, 1944.	Cambridge, Ohio

* Degree to be conferred.

Mar, David You B.A., University of Hawaii, 1937; University of Texas School of Law, 1944.	Honolulu, Hawaii
Murray, Robert Filgo Duke University, 1942-44.	Lenoir, N. C.
Regan, James William A.B., Catawba College, 1939.	Lexington, N. C.
Riggall, Arch John The Citadel, 1941-43; Duke University, 1943-44.	Durham, N. C.
Smith, Willis N., Jr. A.B., Duke University, 1942.	Raleigh, N. C.
Whitley, Wilford L. B.S., Davidson College, 1945.	Plymouth, N. C.
Woodall, Jack Charles Duke University, 1942-44.	Durham, N. C.

SECOND YEAR

Dunham, Frank A.B., University of Virginia, 1941.	Richmond, Va.
Nolen, John Henry A.B., Wofford College, 1940.	Spartanburg, S. C.
Parker, Elizabeth George Duke University, 1941-42; University of Arizona, 1942-43.	Chevy Chase, Md.
Powell, Frank McKinnon A.B., Davidson College, 1942.	Whiteville, N. C.
Rutledge, Ivan Cate A.B., Carson-Newman College, 1934; A.M., Duke University, 1940.	Durham, N. C.
Silverberg, Jeroll Bucknell University, 1941-43.	New Canaan, Conn.

THIRD YEAR

Beal, John Clyde B.B.A., Southern Methodist University, 1944; School of Law, 1942-44.	Dallas, Tex.
Bronson, John William B.S., A.B., Bowling Green State University, 1942.	Gibsonburg, Ohio
Collings, Hazel Cover B.S., The University of Georgia, 1942.	Clemson, S. C.
Dunham, Eileen Fogle A.B., Marietta College, 1943.	Richmond, Va.
Fulk, Frances A.B., Duke University, 1944.	Spencer, N. C.
Morgan, Viotti Eugene Mercer University, 1940-42; School of Law, Mercer University, 1942-43.	Cordele, Ga.
Sanger, Julian Douglas B.A., University of Richmond, 1940.	Richmond, Va.
Strine, Lee Tremaine A.B., University of Southern California, 1940.	York, Pa.
Taub, Melvin Sanford Randolph-Macon College, 1940-42.	Passaic, N. J.

THE SCHOOL OF MEDICINE

October 2, 1944-June 23, 1945

FIRST YEAR

George Reid Andrews.....	Mt. Gilead, N. C.
<i>Dartmouth College;</i> <i>Yale University;</i> <i>Duke University.</i>	
James S. Arnold.....	Chicago, Ill.
<i>Duke University.</i>	
Dorothy Steenberg Asbury.....	Huntington, W. Va.
<i>Stephens College;</i> <i>West Virginia University;</i> <i>Marshall College.</i>	
John Rainey Ashe, Jr.....	Charlotte, N. C.
<i>The Citadel;</i> <i>Davidson College.</i>	
Graham Arthur Barden, Jr. (N).....	New Bern, N. C.
<i>Virginia Military Institute;</i> <i>Duke University.</i>	
Robert Henry Barnes.....	Cooperstown, N. Y.
<i>Union College.</i>	
Wilmer Conrad Betts (N).....	Raleigh, N. C.
<i>Duke University.</i>	
John Vernon Blalock.....	Durham, N. C.
<i>Duke University.</i>	
Donald Dean Carter (N).....	Erwin, Tenn.
<i>Duke University.</i>	
Gordon Malone Carver, Jr. (N).....	Durham, N. C.
<i>Duke University.</i>	
Warren James Collins.....	Savannah, Ga.
<i>Duke University.</i>	
Ross Bache Cone.....	New York, N. Y.
<i>Oberlin College.</i>	
Herbert Lucien Corse.....	Jacksonville, Fla.
<i>Princeton University.</i>	
William John Amsterdam DeMaria.....	Westport, Conn.
<i>University of Connecticut.</i>	
Marcus Lunsford Dillon, Jr. (O).....	Lewisburg, W. Va.
<i>Duke University.</i>	
Bruce Hugh Dorman (N).....	Plainfield, N. J.
<i>Duke University.</i>	
Dante John Feriozi (N).....	Washington, D. C.
<i>Georgetown University;</i> <i>Duke University.</i>	
Harry Gustav Fish, Jr.....	Pennsgrave, N. J.
<i>Duke University.</i>	
Robert Ross Fisher.....	Youngstown, Ohio
<i>Duke University.</i>	

(A) Indicates Private First Class in the Army Specialized Training Program. (O) Indicates Officer's Reserve Corps. (N) Indicates Apprentice Seaman in the Navy V-12(S) Program. (U) Indicates commission as Assistant Surgeon in the U.S.P.H.S. Reserve. (V) Indicates commission as Ensign H-V(P), U.S.N.R. (M) Indicates commission as Second Lieutenant, Medical Administration Corps, A.U.S.

- Lucius Gaston Gage, Jr.....Charlotte, N. C.
Duke University.
- Howard William Gillen (N).....Glen Rock, N. J.
Duke University.
- Robert Averill Gowdy.....W. Los Angeles, Calif.
Davidson College;
University of Minnesota;
Duke University.
- M. Edwin Green, Jr.....Lemoyne, Pa.
Princeton University.
- Charles Groshon Gunn, Jr. (N).....Bluefield, W. Va.
Davidson College;
Duke University.
- William Pullen Hadley (N).....Gainesville, Fla.
University of Florida.
- William Clifford Haggerty (N).....Lakewood, Ohio
Duke University.
- Louis Harris.....Paterson, N. J.
Columbia College.
- James Graham Harrison, Jr.....Mount Airy, N. C.
The Citadel;
Duke University.
- John Hopewell Hebb (N).....Baltimore, Md.
Duke University.
- Howard Egbert Herring, Jr. (N).....Wilson, N. C.
Duke University.
- James William Hollingsworth.....Mt. Airy, N. C.
Duke University.
- Constance Alice Huntley.....Durham, N. C.
Duke University;
Marietta College.
- Albert P. Isenhour, Jr.....Nashville, Tenn.
Vanderbilt University.
- Henry LeRoy Izlar, Jr. (N).....Winston-Salem, N. C.
Duke University.
- Jerome Milton Javer.....Brooklyn, N. Y.
Duke University.
- W. Thomas Jay, Jr.....Bradford, Pa.
Duke University.
- James Patton Johnson, Jr. (N).....Lakeland, Fla.
Duke University.
- Harry John Kalevas.....Rockingham, N. C.
Duke University.
- James Ellis Kicklighter (N).....Sarasota, Fla.
Davidson College;
Duke University.
- William Lies, III.....Coleman, Ga.
Duke University.
- Eugene Joseph Linberg.....Carney's Point, N. J.
Duke University.

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John Terrell Logue, Jr. (A).....	Orange, N. J. <i>Duke University; University of Wisconsin.</i>
Robert Frederick Lorenzen.....	Toledo, Ohio <i>Duke University.</i>
Donald Vincent Mahony (N).....	Sparks, Md. <i>Calvert Hall College; Duke University.</i>
Joseph Howard McAlister.....	Caruthersville, Mo. <i>Duke University.</i>
Ruth Reade McDonald.....	Durham, N. C. <i>Duke University.</i>
Theodore Jackson McGee, Jr.....	Columbus, Ga. <i>The Citadel.</i>
Wilson Parks McKittrick.....	Whitmire, S. C. <i>Presbyterian College.</i>
Harry Thurman McPherson.....	Morgantown, W. Va. <i>Duke University.</i>
Thomas Peter McWilliams.....	Scranton, Pa. <i>Duke University.</i>
Jane Merrill.....	Woodward, Ala. <i>University of Ala.</i>
Berry Bryant Monroe (N).....	Laurinburg, N. C. <i>Davidson College.</i>
John Crawford Muller.....	Dillon, S. C. <i>The Citadel.</i>
Calvin Russell O'Kane.....	Columbus, Ohio <i>Duke University.</i>
John Council Parker (N).....	Farmville, N. C. <i>Virginia Episcopal School; University of North Carolina.</i>
Jack Guyes Robbins (A).....	Durham, N. C. <i>Duke University.</i>
Paul Mark Sarazen, Jr. (N).....	White Plains, N. Y. <i>Duke University.</i>
Hugh Key Sealy, Jr.....	Reynolds, Ga. <i>Emory University.</i>
Robert John Sheridan.....	Wehawken, N. J. <i>Duke University.</i>
Alfred Jay Sherman (N).....	Harrisburg, Pa. <i>Duke University.</i>
Norman Jay Silver.....	New York, N. Y. <i>Duke University.</i>
Zachary Arnold Simpson.....	Charlotte, N. C. <i>Duke University.</i>
Robert Marshall Sinskey (N).....	Baltimore, Md. <i>Washington and Lee University; Duke University.</i>
Chandler Sparkman Smith (N).....	Robersonville, N. C. <i>Duke University.</i>

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- Lucius Stone Smith (N).....Rome, Ga.
Washington and Lee University;
Duke University.
- George Edward Staehle (N).....Newark, N. J.
Princeton University.
- Bernard William Strone (N).....Perth Amboy, N. J.
Duke University.
- Robert Hamilton Thayer (N).....Seattle, Wash.
Phillips Exeter Academy;
Yale University.
- James Cain Vardell, Jr. (N).....Moncks Corner, S. C.
University of the South.
- Lonnie Austine Waggoner, Jr.....Charlotte, N. C.
Duke University.
- Isom Clements Walker, Jr.....Woodland, Ga.
Duke University.
- Robert Marion Wilhoit.....Troy, N. C.
Wake Forest College.
- Robert Walter Willett (N).....New York, N. Y.
Duke University.
- Benjamin Hairston Williamson.....Mt. Airy, N. C.
Davidson College.
- William Glenn Young, Jr. (N).....Washington, D. C.
Duke University.

SECOND YEAR

- Samuel Sheridan Ambrose, Jr. (N).....Jacksonville, N. C.
Duke University.
- Charles Claiborne Blackwell, Jr. (M).....Wilmette, Ill.
University of Virginia;
Washington and Lee University;
Northwestern University.
- Ben Vaughan Branscomb (N).....Durham, N. C.
Duke University.
- William Lester Brooks, Jr. (N).....Charlotte, N. C.
Princeton University.
- James Robert Browning (N).....Windber, Pa.
Duke University.
- John Ralph Burgess, Jr. (A).....Missoula, Mont.
Montana State University.
- James Ryan Chandler (A).....Daytona Beach, Fla.
Duke University.
- Thomas Carlaw Clifford (A).....Shipman, Va.
Yale University.
- Raphael Woodward Coonrad (N).....Evans City, Pa.
Davidson College.
- Henry Hitt Crane, Jr.....Detroit, Mich.
Duke University.

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- Thomas Barker Dameron, Jr. (N).....Goldsboro, N. C.
The Citadel;
Duke University;
University of North Carolina.
- James Charles Dawson, Jr. (A).....San Francisco, Calif.
San Francisco Junior College;
University of San Francisco.
- Albert W. Farley, Jr. (A).....Bay City, Mich.
University of Michigan;
Duke University.
- Blake Fawcett (N).....Alderson, W. Va.
Duke University.
- Tom Bruce Ferguson (A).....Tulsa, Okla.
Duke University.
- Paul Gardner Fillmore (A).....Provo, Utah
Brigham Young University.
- Herman Field Froeb (A).....Forest Hills, N. Y.
Princeton University.
- Joseph Platt Gutstadt (N).....Chicago, Ill.
University of Chicago;
Duke University.
- Robert Slotterback Keller (N).....Lavelle, Pa.
Duke University.
- Dwight Talmadge Kernodle (A).....Elon College, N. C.
Elon College.
- William Arnold Lambeth, Jr. (N).....Asheville, N. C.
Duke University.
- Atala Jane Scudder Davison Levinthal.....Durham, N. C.
Barnard College;
Duke University;
Swarthmore College.
- Robert Oscar Lipe (N).....Albemarle, N. C.
Duke University.
- Donald Stanley Littman (N).....Sunnyside, L. I., N. Y.
Duke University.
- Frank Henry Longino (N).....Texarkana, Ark.
Duke University.
- Ralph Taylor McCauley (A).....Roderfield, W. Va.
Virginia Polytechnic Institute.
- John Marshall McCoy (N).....Charlotte, N. C.
Erskine College.
- Robert Ligon McWhorter, Jr. (N).....Athens, Ga.
University of Georgia;
Emory University.
- Robert Pickens Marshall (N).....Washington, D. C.
Duke University.
- John Edward Masterson (A).....University Heights, Ohio
Adelbert College of Western Reserve University.
- William Thomas Mayer (A).....Shelby, Ohio
Adelbert College of Western Reserve University.

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- Loren Valmore Miller (N).....Yonkers, N. Y.
Concordia Collegiate Institute;
Duke University.
- John Robert Morris (N)Youngstown, Ohio
Duke University.
- Donald Robertson Mundie (N).....Kenmore, N. Y.
Duke University.
- William Parry Murphy, Jr.....Brookline, Mass.
Harvard College.
- Henry Hale Nicholson, Jr. (A).....Statesville, N. C.
Duke University.
- Sherman Homer Pace (N).....St. Petersburg, Fla.
Duke University.
- Grover Smith Patterson (N).....Kannapolis, N. C.
Catawba College.
- Robert Franklin Poole, Jr. (A).....Clemson, S. C.
The Clemson Agricultural College.
- Rhea Stuphen Preston (A).....Pontotoc, Miss.
Davidson College.
- William Watkins Pryor (A).....Oxford, N. C.
Wake Forest College.
- Frederick Ramsay Ritzinger, Jr. (A).....St. Paul, Minn.
University of Washington.
- Harry Campbell Sammons (N).....Marietta, Ohio
Marietta College.
- Guy Phillip Sharpe, Jr. (N).....Tchula, Miss.
Tulane University;
University of Colorado;
Vanderbilt University.
- Kenneth Sihler Shepard (A).....Chicago, Ill.
Duke University.
- James Loughrey Smeltzer (N).....Youngstown, Ohio
Western Reserve University;
Duke University.
- Ernest Wendell Smith (N).....Charlotte, N. C.
Duke University.
- Stuart Cameron Smith (A).....Staten Island, N. Y.
Duke University.
- Dorothy Dair Snyder.....Dover, Ohio
Duke University.
- LeRoy Everett Talcott, Jr. (N).....Hartford, Conn.
Princeton University.
- Allen Taylor (A).....Greenville, N. C.
Duke University.
- James Robert Teabeaut, II (A).....Fayetteville, N. C.
Duke University.
- Jack Lamkin Teasley (N).....St. Albans, W. Va.
Duke University.
- Robert Hicks Thompson (N).....Dublin, Ga.
Clemson College;
Duke University.

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William West Thompson (A).....	Hallsboro, N. C.
<i>Wake Forest College;</i> <i>Duke University.</i>	
Willis Herbert Thornburg (A).....	New York, N. Y.
<i>Duke University.</i>	
Silas Owens Thorne, Jr. (N).....	Charlotte, N. C.
<i>Duke University.</i>	
Frederick Cleverly Vogell (A).....	Wilmore, Ky.
<i>Asbury College.</i>	
William Charles Wansker (M).....	Macon, Ga.
<i>Duke University.</i>	
Joseph Major Ward (N).....	Robersonville, N. C.
<i>University of North Carolina.</i>	
Norma Ware.....	Macon, Ga.
<i>Duke University.</i>	
Harry Leon Wechsler (N).....	McKeesport, Pa.
<i>Duke University.</i>	
Milton Weinberg, Jr. (N).....	Sumter, S. C.
<i>Duke University.</i>	
Robert Cooper Welsh (N).....	Miami, Fla.
<i>Duke University.</i>	
David Craig White (A).....	Englewood, N. J.
<i>Duke University.</i>	
Lawrence Jack Wilchins (A).....	Cincinnati, Ohio
<i>Duke University.</i>	
Roger Davis Williams (A).....	Charlotte, N. C.
<i>Duke University.</i>	
Leo Hughes Wilson, Jr. (N).....	Bradenton, Fla.
<i>University of Florida;</i> <i>Duke University.</i>	
William Preston Wilson (A).....	Durham, N. C.
<i>Campbell Junior College;</i> <i>Duke University.</i>	
John Lemuel Wooten (A).....	Greenville, N. C.
<i>Duke University.</i>	
Richard Nickles Wrenn (N).....	Anderson, S. C.
<i>Duke University.</i>	
John Engler Zeliff, Jr. (N).....	Youngsville, Pa.
<i>Pennsylvania State College;</i> <i>Duke University.</i>	

JUNIOR YEAR

Harry Sholar Allen, Jr. (A).....	Florence, S. C.
<i>Davidson College.</i>	
Clarence Leonidas Anderson (A).....	Tampa, Fla.
<i>Davidson College.</i>	
Reid Hogan Anderson (A).....	Pullman, Wash.
<i>State College of Washington.</i>	
Robert Harper Anderson (A).....	Wilson, N. C.
<i>Duke University.</i>	

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- Dorothy Clarke Armstrong.....Port Arthur, Ontario, Canada
*Port Arthur Collegiate;
Tufts College.*
- James Guernsey Bassett (A).....Port Huron, Mich.
*Port Huron Junior College;
University of Michigan.*
- Ritchie Hugh Belser (A).....Columbia, S. C.
The Citadel.
- Alfred Seymour Berne (A).....Woodhaven, N. Y.
Duke University.
- Richard Titsworth Binford (U).....Marion, N. C.
*Guilford College;
University of North Carolina.*
- Richard Calvin Bishop (N).....St. Petersburg, Fla.
Duke University.
- Alexander White Boone, Jr. (A).....Pennsgrove, N. J.
Duke University.
- William Richard Brink (A).....Williamsport, Pa.
*Williamsport Dickinson Junior College;
Pennsylvania State College;
Harvard University.*
- Thomas Ray Broadbent (A).....Heber, Utah
Brigham Young University.
- John Burton Bryan (N).....St. Petersburg, Fla.
*St. Petersburg Junior College;
Duke University.*
- Frank Highsmith Campbell (N).....Durham, N. C.
Duke University.
- Ralph Ingersoll Cottle, Jr. (N).....Warren, Ohio
Duke University.
- Robert Edwin Crompton (A).....Toronto, Ontario, Canada
*University of Toronto;
University of Toronto Medical School, 1940-1942.*
- John Murdoch Crowell (A).....Chattanooga, Tenn.
University of Chattanooga.
- Frank Willard Davis, Jr. (A).....Biltmore, N. C.
Duke University.
- John Wesley DeReamer (A).....Morrisville, Pa.
Duke University.
- Elaine G. Fichter.....West Hazelton, Pa.
Maryville College.
- Zenas Waldo Ford, Jr. (A).....Fayetteville, Ark
University of Arkansas.
- Saul Arnold Frankel (A).....Woodmere, L. I., N. Y.
Yale University.
- Walter Houseal Goggans (A).....Newberry, S. C.
Clemson College.
- James Boyd Golden (N).....Greenfield, Mass.
Duke University.
- Everett Richard Harrell, Jr. (N).....Birmingham, Mich.
*Ohio Wesleyan;
Duke University.*
- Edward Gustavus Haskell, Jr. (N).....Jacksonville, Fla.
The Citadel.

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Charles Tracy Henderson (A).....	Morris, Ind. <i>Duke University.</i>
William N. Henderson (A).....	Maplewood, N. J. <i>New York University;</i> <i>Duke University.</i>
Thomas Alfred Hockman (N).....	Kalamazoo, Mich. <i>University of Cincinnati;</i> <i>Duke University.</i>
David Smith Hubbell (A).....	Durham, N. C. <i>Duke University.</i>
Carlos Lee Hudson (A).....	Urbana, Ill. <i>University of Illinois.</i>
Ralph Herlinger Jamison (N).....	Warren, Ohio <i>Western Reserve University;</i> <i>Duke University.</i>
Joseph Kempton Jones (N).....	Salisbury, N. C. <i>Duke University.</i>
Thomas Francis Kelley (A).....	Waltham, Mass. <i>Massachusetts State College;</i> <i>University of California.</i>
Grace P. Kerby.....	Miami, Fla. <i>Florida State College for Women;</i> <i>Johns Hopkins University.</i>
Ethen Sease Koon, Jr. (N).....	Asheville, N. C. <i>Biltmore College;</i> <i>Mars Hill College;</i> <i>Duke University.</i>
Duval Holtzclaw Koonce (A).....	Chadbourn, N. C. <i>Duke University.</i>
Thomas Howard Lewis (N).....	Seattle, Wash. <i>University of Washington.</i>
Carmine Keith Lyons (N).....	Charleston, W. Va. <i>Duke University.</i>
Walter Anderson McLeod, Jr. (N).....	St. Petersburg, Fla. <i>St. Petersburg Junior College;</i> <i>Duke University.</i>
John Guy Maines, Jr. (N).....	Ossining, N. Y. <i>Duke University.</i>
Ashton Bryom Morrison.....	Sunnyside, Northern Ireland <i>Queen's University.</i>
Paul Lanier Ogburn (A).....	Charlotte, N. C. <i>Canadian Academy;</i> <i>Duke University.</i>
Harold Monroe Peacock (N).....	Benson, N. C. <i>University of North Carolina.</i>
Robert Lloyd Pinck (A).....	Paterson, N. J. <i>Washington and Lee University.</i>
Ralph Waldo Powell (N).....	Avondale Estates, Ga. <i>Duke University.</i>
James Warren Rogers (N).....	Cleveland Heights, Ohio <i>University of Georgia.</i>

(A) Indicates Private First Class in the Army Specialized Training Program. (O) Indicates Officer's Reserve Corps. (N) Indicates Apprentice Seaman in the Navy V-12(S) Program. (U) Indicates commission as Assistant Surgeon in the U.S.P.H.S. Reserve. (V) Indicates commission as Ensign H-V(P), U.S.N.R. (M) Indicates commission as Second Lieutenant, Medical Administration Corps, A.U.S.

- Evan Weible Schear (A).....Westerville, Ohio
Otterbein College.
- John Edgar Scheid, Jr. (N).....Brackenbridge, Pa.
Westminster College.
- Guy Walter Schlaseman (A).....Lansford, Pa.
Duke University.
- Paul Henry Sherman (N).....Baltimore, Md.
Alabama Polytechnic Institute;
Duke University.
- Alwyn Abraham Shugerman (A).....Birmingham, Ala.
Birmingham-Southern College;
University of Alabama.
- Homer Alden Sieber (A).....Roanoke, Va.
Roanoke College.
- John Delabarre Staub (N).....Houston, Tex.
Rice Institute;
Texas University.
- Richard Marks Stitt (N).....Warren, Ohio
Pennsylvania State College;
Denison University.
- Thomas Bayton Suiter, Jr. (A).....Rocky Mount, N. C.
Duke University.
- Richard Earl Symmonds (N).....Memphis, Mo.
Central College.
- Lloyd McCully Taylor (N).....Maryville, Tenn.
Maryville College.
- James Richard Thistlethwaite (A).....Richmond, Va.
University of Richmond.
- Frederick Arrowood Thompson, Jr. (A).....Lenoir, N. C.
Duke University.
- Robert Gordon Thompson (A).....Durham, N. C.
Duke University.
- Malcolm Paul Tyor (N).....Jamaica, N. Y.
University of Wisconsin.
- E. Henry Valentine.....Macon, Ga.
Mercer University.
- Joseph Emmett Walthall, III (A).....Athens, W. Va.
Greenbrier Military School;
West Virginia University.
- Lewis William Wannamaker (A).....St. Matthews, S. C.
Emory University.
- Bailey Daniel Webb.....Oxford, N. C.
Greensboro College;
University of North Carolina.
- James Foster Williamson (N).....Columbia, S. C.
Clemson College.
- Dan Hall Willoughby (A).....Jackson, Miss.
University of Mississippi;
Duke University.
- John Cummings Withington (A).....Savannah, Ga.
Duke University.

(A) Indicates Private First Class in the Army Specialized Training Program. (O) Indicates Officer's Reserve Corps. (N) Indicates Apprentice Seaman in the Navy V-12(S) Program. (U) Indicates commission as Assistant Surgeon in the U.S.P.H.S. Reserve. (V) Indicates commission as Ensign H-V(P), U.S.N.R. (M) Indicates commission as Second Lieutenant, Medical Administration Corps, A.U.S.

Frank Reece Wrenn (N).....	Anderson, S. C.
<i>Duke University.</i>	
Jack Dunn Wycoff (N).....	Springfield, Ky.
<i>The Citadel.</i>	

SENIOR YEAR

Byron Michel Bloor (N).....	Moscow, Idaho
<i>University of Idaho;</i>	
<i>University of Washington;</i>	
<i>University of Idaho.</i>	
Richard Edwin Boger (N).....	Charlotte, N. C.
<i>Duke University.</i>	
Jay Olsen Brinton (A).....	Salt Lake City, Utah
<i>Westminster Junior College;</i>	
<i>Eastern Kentucky State Teachers College;</i>	
<i>University of Idaho.</i>	
William Armstead Brooks, III (A).....	Dallas, Tex.
<i>Duke University.</i>	
Walter Jordan Brower (A).....	New York, N. Y.
<i>University of Alabama.</i>	
Carrel Mayo Caudill (A).....	Pearisburg, Va.
<i>Duke University.</i>	
Robert George Chambers (V).....	New York, N. Y.
<i>Duke University.</i>	
Arthur Edward DeNio, Jr. (A).....	Detroit, Mich.
<i>Duke University.</i>	
Hugh Dortch, Jr. (A).....	Goldsboro, N. C.
<i>University of North Carolina;</i>	
<i>University of North Carolina Medical School, 1942-1943.</i>	
Carleton Cecil Douglass (M).....	Newark, Del.
<i>University of Delaware.</i>	
Elizabeth Jean Dubs.....	Durham, N. C.
<i>Duke University.</i>	
Adolphus William Dunn (N).....	Leaksville, N. C.
<i>Wake Forest College.</i>	
Ralph Gerald Eaker (A).....	Lawndale, N. C.
<i>Wofford College.</i>	
John Richard Emlet (N).....	Hanover, Pa.
<i>Dickinson College.</i>	
James Edward Farley, Jr. (M).....	Durham, N. C.
<i>Duke University.</i>	
Charles Shirey Flynn (A).....	Bluefield, W. Va.
<i>Bluefield Junior College;</i>	
<i>Duke University.</i>	
Richard Edmond Lee Fowler (A).....	Marion, Miss.
<i>University of Mississippi;</i>	
<i>University of Mississippi School of Medicine, 1942-1943.</i>	
Mary Goodyear.....	Manchester, England
<i>University of Manchester Medical School, 1939-1943.</i>	
Frederick Clare Hanson (N).....	Geneva, Ill.
<i>University of Illinois;</i>	
<i>University of Wisconsin.</i>	

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- Benedict Harrow (A).....Pittsfield, Mass.
Duke University.
- Willis Holland Hodges, Jr. (A).....Columbus, Ohio
Ohio State University.
- Bruce Charles Holman (N).....Bainbridge, N. Y.
Hamilton College;
Duke University.
- Earl Pendleton Holt, Jr. (A).....Oak Ridge, N. C.
Oak Ridge Military Institute;
Duke University.
- Thomas Ruffin Hood (N).....Smithfield, N. C.
Mars Hill Junior College;
Duke University.
- Louis Moffitt Howell (A).....Jacksonville, Fla.
University of Florida.
- Beverly N. Jones, Jr. (A).....Winston-Salem, N. C.
Virginia Polytechnic Institute.
- Stanley Jay Kallman (A).....New York, N. Y.
University of North Carolina.
- Seymour Robert Kaplan (N).....Miami, Fla.
Brooklyn College;
Duke University.
- George Wallace Kernodle (A).....Elon College, N. C.
Elon College.
- Alfred Robert Kessler (N).....Astoria, N. Y.
Fordham University.
- Victor Henry Knight, Jr. (N).....Tampa, Fla.
Duke University.
- Emery Thomas Kraycirik (V).....Windber, Pa.
Franklin and Marshall Academy;
Lenoir-Rhyne College.
- Ullin Whitney Leavell, Jr. (A).....Nashville, Tenn.
Vanderbilt University.
- Charles William Lewis, Jr. (N).....Greensboro, N. C.
Guilford College.
- William Figgatt Lovell (N).....Raleigh, N. C.
North Carolina State College;
Duke University.
- James Dwight Lutz (N).....Shelby, N. C.
Duke University.
- John Niel McClure, Jr. (A).....Palmetto, Fla.
Duke University.
- Hugh McCulloch, Jr. (A).....St. Louis, Mo.
Washington and Lee University.
- Frank Watt McCune (A).....McKeesport, Pa.
Duke University.
- John P. McGovern (A).....Washington, D. C.
Duke University.
- A. Ziegler McPherson (A).....Little Rock, Ark.
University of Oklahoma;
University of Arkansas.

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- James Thompson Metzger (N).....Pittsburgh, Pa.
Loomis Institute;
University of Pittsburgh.
- Lowell Stephen Miller (N).....Asheville, N. C.
Mars Hill College;
Duke University.
- Oscar McLendon Mims (N).....Florence, S. C.
University of South Carolina.
- James Donaldson Moody.....East Brady, Pa.
Duke University.
- Thomas Joseph Moore (A).....Bronxville, N. Y.
Duke University.
- Herbert Leon Newbold, Jr. (A).....Newport News, Va.
College of William and Mary;
Duke University.
- Richard Milton Paddison (A).....Savannah, Ga.
Duke University.
Guilford College
- Herbert William Park, III (N).....Greensboro, N. C.
George Washington University;
University of North Carolina;
University of North Carolina School of Medicine, 1942-1943.
- Neal Copeland Perkins (N).....Grand Forks, N. D.
University of North Dakota;
University of North Dakota School of Medicine, 1941-1943.
- Benjamin Jackson Philips, Jr. (A).....Jacksonville, Fla.
Davidson College.
- Alfred Rowland Pittman, Jr. (N).....Lumberton, N. C.
North Carolina State College;
Wake Forest College.
- Grover Duckett Poole (N).....Raleigh, N. C.
Duke University.
- Robert Barclay Ragland (M).....Jacksonville, Fla.
Virginia Military Institute;
University of Colorado;
University of Florida.
- Clarence Lee Ruffin (A).....Tarboro, N. C.
University of North Carolina.
- Edwin Robert Ruskin (A).....New Rochelle, N. Y.
Duke University.
- Robert McCurdy Russell (A).....Burgettstown, Pa.
Duke University.
- Harold St. John (A).....Washington, D. C.
Northwestern University.
- William Benjamin Schwartz, Jr. (A).....Woodmere, N. Y.
Duke University.
- Murray Bernard Sheldon, Jr. (A).....Roselle Park, N. J.
Duke University.
- Stephen David Smith (A).....Rome, Ga.
University of Georgia.
- Thoburn Rudolph Snyder, Jr. (N).....Mount Pleasant, Pa.
Duke University.

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- Edward John Stainbrook (M).....Durham, N. C.
Alleghany College;
Catholic University;
Duke University.
- William Sinclair Stewart, IV (N).....Charlotte, N. C.
Duke University.
- Wingate Elwood Swain (A).....Shallotte, N. C.
Wake Forest College.
- Frederick Harvey Taylor (N).....High Point, N. C.
Guilford College.
- Paul Clayton Thompson (N).....Reidsville, N. C.
Duke University.
- Bennie Vatz (A).....Kinston, N. C.
Eastern Carolina Teachers College;
University of North Carolina.
- Carl Marvin Voyles, Jr. (A).....Williamsburg, Va.
College of William and Mary.
- William Thurman Watkins, Jr. (N).....Newport News, Va.
Duke University.
- William D. Weber (A).....Erie, Pa.
University of Pittsburgh;
Duke University.
- Samuel Gould Welborn (A).....Lexington, N. C.
Davidson College.
- Hayes MacMurry White, Jr. (A).....Raleigh, N. C.
Duke University.
- Walter Barron Withers (A).....Chapel Hill, N. C.
University of North Carolina.
- Robert Clifford Wulfman (N).....Huntington, W. Va.
Marshall College.
- Karl Arden Youngstrom (A).....Durham, N. C.
University of Kansas;
University of Kansas Graduate School;
University of Kansas School of Medicine, 1929-1933;
University of Chicago School of Medicine, 1940-1941.
- Albert C. Zahn (A).....Mandan, N. D.
Montana State University;
University of North Dakota School of Medicine, 1941-1943.

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THE SCHOOL OF NURSING FINISHING SENIOR STUDENTS

- Adams, Barbara Fay.....Leland, N. C.
Winthrop College.
- Banks, Katherine M.....Hickory, N. C.
Duke University.
- Barbrey, Betty Jane.....Mount Olive, N. C.
Pfeiffer Junior College.
- Bennett, Virginia Rose.....Weston, W. Va.
West Virginia University.
- Bond, Sarah Roberts.....Augusta, Ga.
Georgia State College for Women.

Boring, Dorothy Louise.....	Plant City, Fla. <i>Florida State College.</i>
Braswell, Ruth Davis.....	Princeton, N. C. <i>Louisburg College.</i>
Broadhurst, Jane.....	Goldsboro, N. C. <i>Woman's College, University of North Carolina.</i>
Byrd, Frances Levenia.....	Leaksville, N. C. <i>Averett College.</i>
Byrd, Mary Jane.....	Candler, N. C. <i>Brevard College.</i>
Caviness, Edith Ann.....	Lillington, N. C. <i>Peace College.</i>
Chalker, Mary C.....	West Palm Beach, Fla. <i>Florida State College for Women.</i>
Colley, Myrle.....	Wilmington, N. C. <i>Louisburg College.</i>
Cothran, Jane.....	Inman, S. C. <i>Winthrop College.</i>
Covington, Martha Lee.....	Mebane, N. C. <i>Mitchell College.</i>
Davis, Martha Jane.....	Andrews, N. C. <i>Mars Hill College.</i>
Davis, Pauline.....	Nashville, N. C. <i>Madison College.</i>
Davis, Ruth.....	Clinton, S. C. <i>Presbyterian College.</i>
Davis, Virginia Helen.....	Uniontown, Pa. <i>West Virginia University.</i>
Denny, Janice.....	Asheville, N. C. <i>Biltmore College.</i>
Durner, Hazel Ruth.....	Waterbury, Conn. <i>Duke University.</i>
Fisher, Mary Alice.....	Clayton, Ga. <i>University of Georgia.</i>
Freeman, M. Trudell.....	Ether, N. C. <i>Pfeiffer College.</i>
Givin, Nelle Brown.....	Charleston, W. Va. <i>University of Alabama.</i>
Gossett, Mary Frances.....	Stephen, S. C. <i>Winthrop College.</i>
Gray, Virginia.....	Oyster Bay, N. Y. <i>Duke University.</i>
Hanna, Mary Chapman.....	Blacksburg, S. C. <i>Winthrop College.</i>
Harlow, Gene Anne.....	Jacksonville, Fla. <i>Florida State College for Women.</i>
Hawes, Ruth Mae.....	Tallahassee, Fla. <i>Florida State College for Women.</i>
Hege, Margaret Elizabeth.....	Winston-Salem, N. C. <i>Duke University.</i>
Kaiser, Edith.....	Lexington, S. C. <i>Newberry College.</i>

- Kime, Selena.....Liberty, N. C.
Lenoir-Rhyne College.
- Kirby, Mary Katherine.....Newry, S. C.
Asheville College.
- Knowles, Lois Nina.....Valrico, Fla.
Florida State College for Women.
- Lawrence, Elizabeth.....Swedesboro, N. J.
Duke University.
- McElroy, Barbara Anne.....Latrobe, Pa.
Grove City College.
- McIntyre, Jean C.....Marion, S. C.
Limestone College.
- Mitchell, Paula Mozelle.....Cullman, Ala.
University of Alabama.
- Morrow, Nancy Anne.....Shaker Heights, Ohio
William and Mary College.
- Nash, Doris.....Troy, Pa.
Temple University.
- Nix, Jean D.....Garnett, S. C.
Winthrop College.
- Reflogal, Jacquelyn.....Clearwater, Fla.
Mary Washington College.
- Rhod, Betty Claire.....Moncks Corner, S. C.
Winthrop College.
- Riddle, Betty Louise.....Graham, N. C.
Elon College.
- Robeson, Jeanne.....Tarheel, N. C.
Flora Macdonald College.
- Robinette, Helen M.....Winston-Salem, N. C.
Campbell College.
- Robinson, Mary Jean.....Clarksburg, W. Va.
Ohio University.
- Rowland, Alice Bird.....Johnstown, Pa.
University of Pennsylvania.
- Sawyer, Mary Harriet.....Charlotte, N. C.
Woman's College, University of North Carolina.
- Smith, Adella May.....Clinton, N. C.
Woman's College, University of North Carolina.
- Smith, Annie Ruth.....Albemarle, N. C.
Winthrop College.
- Smith, Emily June.....Odd, Va.
State Teachers College.
- Solomon, Hazel.....Charlotte, N. C.
Woman's College, University of North Carolina.
- Stewart, Katherine.....Lillington, N. C.
Campbell College.
- Stiglitz, Adelaide.....Plainfield, N. J.
Madison College.
- Styron, Myrtle Frances.....Goldsboro, N. C.
Woman's College, University of North Carolina.
- Taylor, Virginia Louise.....Boone, N. C.
St. Mary's School.

Vaughan, Louise.....	Rich Square, N. C. <i>Peace College.</i>
Wahmann, Nancy.....	Moultrie, Ga. <i>Duke University.</i>
Watkins, Martha Elizabeth.....	Valdese, N. C. <i>Lenoir-Rhyne College.</i>
White, Betty Evelyn.....	Bynum, N. C. <i>Elon College.</i>
Willcox, Mary Moore.....	Marion, S. C. <i>Winthrop College.</i>
Wylie, Ruth Laura.....	Alloy, W. Va. <i>West Virginia University.</i>
Yoak, Betty Jo.....	Ceredo, W. Va. <i>Marshall College.</i>

SENIOR STUDENTS

Alley, Mary Lee.....	Greensboro, N. C. <i>Montreat College; Woman's College, University of North Carolina.</i>
Baker, Alfreda.....	Carthage, N. C. <i>Elon College.</i>
Bason, Betty Greene.....	Graham, N. C. <i>Brevard Junior College.</i>
Bates, Mary Elizabeth.....	Winston-Salem, N. C. <i>Woman's College, University of North Carolina.</i>
Brevoort, Esther Ruth.....	Hampton, Va. <i>Mary Washington College; Duke University.</i>
Cannady, Edythe Ethel.....	Panama City, Fla. <i>Abraham Baldwin College; Georgia State Woman's College.</i>
Carver, Clara.....	Canton, N. C. <i>Western Carolina Teachers College.</i>
Conrad, Phoebe Elizabeth.....	New York, N. Y. <i>Edinboro State Teachers College.</i>
Cooke, Edith Celestia.....	Durham, N. C. <i>Duke University.</i>
Curry, Johnsie Stowe.....	Kannapolis, N. C. <i>Woman's College, University of North Carolina; High Point College.</i>
DeLong, Sara Louise.....	Reading, Pa. <i>Catawba College.</i>
Dermid, Emma Olive.....	Hendersonville, N. C. <i>Woman's College, University of North Carolina.</i>
Dettmar, Frances Aileen.....	Kings Mountain, N. C. <i>Brevard College.</i>
Ensign, Carol Joy.....	Gainesville, Fla. <i>University of Florida; Florida State College for Women.</i>
Gambrell, Vivian E.....	Lexington, N. C. <i>Catawba College.</i>
Glen, Cecilia W.....	Edisto Island, S. C. <i>Duke University.</i>
Grant, Margaret Turner.....	Mocksville, N. C. <i>Catawba College; Peace Junior College.</i>

- Jones, May Craigge.....Boca Grande, Fla.
Georgetown College.
- King, Martha Grey.....Louisburg, N. C.
Eastern Carolina Teachers College.
- Laws, Cicily Anne.....Brantwood, Md.
Mars Hill College.
- Leach, Martha.....Hamlet, N. C.
Georgia State College for Women.
- Lepper, Mary Ellen.....Hastings-on-Hudson, N. Y.
Duke University.
- Lineberry, Nancy Eleanor.....Raleigh, N. C.
Peace Junior College.
- Luna, Patricia Ardelia.....McMinnville, Tenn.
Berea College.
- Miller, Margaret.....Aberdeen, N. C.
*Woman's College, University of North Carolina;
Queen's College.*
- Miller, Mary Sue.....Lakeland, Fla.
Florida Southern College.
- O'Rear, Jean Fray.....Evansville, Ind.
Kansas City Junior College.
- Owens, Faith.....Charlotte, N. C.
Winthrop College.
- Ransom, Audrey Mae.....Longmeadow, Mass.
Mary Washington College.
- Reynolds, Elizabeth Hines.....Rockingham, N. C.
Woman's College, University of North Carolina.
- Sharp, Louise Wortham.....Reidsville, N. C.
Woman's College, University of North Carolina.
- Smith, Lucy Fay.....Kernersville, N. C.
Salem College.
- Talley, Patricia Ann.....Greenville, S. C.
Furman University.
- Taylor, Helen E.....Miami, Fla.
Florida State College for Women.
- Thorpe, Annie Louise.....Hardeeville, S. C.
Winthrop College.
- Trawick, Betty Jean.....Sparta, Ga.
Shorter College.
- Vannah, Mary.....Brevard, N. C.
University of Tennessee.
- Whitfield, Mae Joyce.....Durham, N. C.
Duke University.
- Williard, Ruth Boaz.....High Point, N. C.
Woman's College, University of North Carolina.
- Wirt, Julia B.....Camp Hill, Pa.
Catawba College.

JUNIOR STUDENTS

- Alexander, Henry Quincy.....Pineville, N. C.
Mitchell College.
- Althausen, Ben Eva.....Fort Lauderdale, Fla.
Pre-Nursing Course, Duke University.

- Armbrister, Elizabeth A.....Bluefield, W. Va.
Pre-Nursing Course, Duke University.
- Beasley, Eleanor.....Louisburg, N. C.
*Louisburg College;
Brevard College.*
- Berry, Jean Mills.....Durham, N. C.
Pre-Nursing Course, Duke University.
- Blackwell, Isabel.....Marion, S. C.
Limestone College.
- Bowden, Mary Ellen.....Fitzgerald, Ga.
*Mercer University;
Pre-Nursing Course, Duke University.*
- Brisson, Mittie Jean.....Lumberton, N. C.
*Mars Hill Junior College;
Pre-Nursing Course, Duke University.*
- Caldwell, Reva Fern.....Washington, D. C.
*N. E. Missouri State Teachers College;
Pre-Nursing Course, Duke University.*
- Campbell, Barbara Ann.....Gainesville, Fla.
Pre-Nursing Course, Duke University.
- Champion, Elizabeth L.....Kannapolis, N. C.
Pre-Nursing Course, Duke University.
- Clegg, Elizabeth.....Durham, N. C.
Duke University.
- Edens, Doris A.....Rowland, N. C.
*Appalachian State Teachers College;
Pre-Nursing Course, Duke University.*
- Fleming, Ilah.....Gainesville, Fla.
*University of Florida;
Florida State College for Women.*
- Garrett, Emily L.....Lancaster, S. C.
*Winthrop College;
Pre-Nursing Course, Duke University.*
- Gibson, Patricia Ann.....Hampton, Va.
Farmville State Teachers College.
- Giles, Dorothy Nell.....Huntsville, Ala.
Pre-Nursing Course, Duke University.
- Goff, Mary Jean.....Fort Benning, Ga.
La Crosse State Teachers College.
- Goforth, Ellen.....Rutherfordton, N. C.
Mars Hill College.
- Haigh, Joanne.....Daytona Beach, Fla.
*Florida State College for Women;
Pre-Nursing Course, Duke University.*
- Harris, Margaret Ray.....Durham, N. C.
Pre-Nursing Course, Duke University.
- Harrison, Betty Jo.....Georgetown, Ky.
Georgetown College.
- Johnson, Betsy Ross.....Clayton, N. C.
Pre-Nursing Course, Duke University.
- Johnson, Joyce Faye.....Fayetteville, N. C.
Pre-Nursing Course, Duke University.
- King, Margaret A.....Pleasant Garden, N. C.
*Pfeiffer Junior College;
Pre-Nursing Course, Duke University.*

- Lane, Jacqueline A.....Flat Rock, N. C.
Barnard College;
Pre-Nursing Course, Duke University.
- Logan, Georgia Bryan.....Chapel Hill, N. C.
University of North Carolina.
- Lott, Virginia E.....Aiken, S. C.
Winthrop College.
- Lovette, Virginia.....Wilkesboro, N. C.
Pre-Nursing Course, Duke University.
- Lucas, Maude Lee.....Hillsboro, N. C.
University of North Carolina;
Pre-Nursing Course, Duke University.
- McKeever, Shirley Ann.....Washington, D. C.
Pre-Nursing Course, Duke University.
- McLendon, Anna Madge.....Greenville, S. C.
Furman University.
- Majette, Helen Jones.....Franklin, Va.
Mary Washington College;
Pre-Nursing Course, Duke University.
- Marston, Peggy Lee.....Edinburg, Va.
Madison College.
- Michie, Jacqueline A.....Durham, N. C.
Pre-Nursing Course, Duke University.
- Morgan, Evelyn Davis.....Salisbury, N. C.
Catawba College.
- Nicholson, Dorothy J.....Converse, S. C.
Winthrop College;
Pre-Nursing Course, Duke University.
- Otken, Mary Frances.....Greenwood, Miss.
Pre-Nursing Course, Duke University.
- Peterson, Barbara Elizabeth.....Ann Arbor, Mich.
Pre-Nursing Course, Duke University.
- Pike, Rubilee.....Columbia, S. C.
University of South Carolina;
Pre-Nursing Course, Duke University.
- Pritchett, Sarah Scott.....Olanda, S. C.
Winthrop College.
- Roller, Jean.....Roanoke, Va.
State Teachers College;
Pre-Nursing Course, Duke University.
- Routledge, Sarah Elizabeth.....Rome, Ga.
Alabama Polytechnic Institute;
Pre-Nursing Course, Duke University.
- Rudisill, Bertha.....Roxbury, Va.
Pre-Nursing Course, Duke University.
- Seay, Margaret.....Waldo, Fla.
Florida State College for Women.
- Short, Zelda Marie.....Bluefield, W. Va.
Bluefield College;
Pre-Nursing Course, Duke University.
- Smith, Edith E.....Louisville, Ky.
Franklin College of Indiana;
Pre-Nursing Course, Duke University.
- Smith, Margaret Louise.....Fremont, N. C.
Pre-Nursing Course, Duke University.
- Snyder, Cora Crawford.....Shepherdstown, W. Va.
Duke University;
Pre-Nursing Course, Duke University.

Strother, Wincey Irene.....	High Point, N. C. <i>High Point College.</i>
Swartz, Betty Jane.....	York, Pa. <i>York Junior College.</i>
Talley, Rebecca Jane.....	Fuquay Springs, N. C. <i>Mars Hill College; Pre-Nursing Course, Duke University.</i>
Thomas, Wilma Anne.....	York, S. C. <i>Appalachian State Teachers College.</i>
Walker, Mary Clair.....	Winston-Salem, N. C. <i>Woman's College, University of North Carolina; Pre-Nursing Course, Duke University.</i>
Welsh, Sarah Ruth.....	Lumberton, N. C. <i>Pre-Nursing Course, Duke University.</i>
Westman, Dorothy.....	Buffalo, N. Y. <i>Pre-Nursing Course, Duke University.</i>
Williams, Mary Elizabeth.....	New Bern, N. C. <i>Woman's College, University of North Carolina.</i>

FRESHMAN STUDENTS

Apple, Winnie Marie.....	Reidsville, N. C. <i>Pre-Nursing Course, Duke University.</i>
Armstrong, Ora Pauline.....	Tarboro, N. C. <i>Pre-Nursing Course, Duke University.</i>
Bailey, Lucille Watson.....	Washington, D. C. <i>Pre-Nursing Course, Duke University.</i>
Batten, Betty Joe.....	Welch, W. Va. <i>West Virginia University.</i>
Best, Flora Louise.....	Milton, Pa. <i>The Woman's College, Duke University.</i>
Bingham, Ruby Jewel.....	Meadowview, Va. <i>Pre-Nursing Course, Duke University.</i>
Bishop, Martha Louise.....	Henagar, Ala. <i>University of Alabama.</i>
Bispham, Betty Ann.....	Bradenton, Fla. <i>Pre-Nursing Course, Duke University.</i>
Blaylock, Doris Eileen.....	Charleston, S. C. <i>Pre-Nursing Course, Duke University.</i>
Braddock, Nina Marie.....	Winston-Salem, N. C. <i>Pre-Nursing Course, Duke University.</i>
Bradsher, Frances Elizabeth.....	Salisbury, N. C. <i>Catawba College.</i>
Boesel, Pauline Ruth.....	Niles, Ohio <i>Sullins College; Pre-Nursing Course, Duke University.</i>
Boring, Barbara Adair.....	Wildwood, Fla. <i>Florida State College for Women.</i>
Bouton, Joanne.....	Smethport, Pa. <i>Pre-Nursing Course, Duke University.</i>
Boynton, Sarah Ross.....	Havana, Fla. <i>Florida State College for Women.</i>
Brabham, Ann Mildred.....	Winnsboro, S. C. <i>Winthrop College; Pre-Nursing Course, Duke University.</i>

- Bufkin, Mattee Bullard.....Leland, Miss.
Mississippi State College for Women;
Pre-Nursing Course, Duke University.
- Bundy, Jeanne Petteway.....Greenville, N. C.
Pre-Nursing Course, Duke University.
- Burrow, Betty Belle.....Bristol, Tenn.
Pre-Nursing Course, Duke University.
- Christoph, Carolyn Edith.....Washington, D. C.
George Washington University;
Pre-Nursing Course, Duke University.
- Cline, Mary Laura.....Concord, N. C.
Woman's College, University of North Carolina;
Pre-Nursing Course, Duke University.
- Compton, Anna Belle.....Arlington, Va.
George Washington University.
- Conder, Elizabeth Mason.....Columbia, S. C.
Winthrop College.
- Conroy, Patricia Ann.....Ozone Park, N. Y.
Pre-Nursing Course, Duke University.
- Cooke, Mary Alice.....Elizabethton, Tenn.
Appalachian State Teachers College.
- Cox, Frances Jean.....West End, N. C.
Pre-Nursing Course, Duke University.
- Craig, Eleanor.....Jacksonville, Fla.
The Woman's College, Duke University.
- Crovatt, Dorothy Belle.....Jacksonville, Fla.
Pre-Nursing Course, Duke University.
- Dalton, Eva Virginia.....Tampa, Fla.
Pre-Nursing Course, Duke University.
- Daves, Annie Frances.....Kannapolis, N. C.
Montreat College;
Pre-Nursing Course, Duke University.
- Davis, Annie Laura.....Todd, N. C.
Appalachian State Teachers College;
Pre-Nursing Course, Duke University.
- Dawson, Deborah.....Washington, D. C.
Pre-Nursing Course, Duke University.
- Diggs, Gerry Annette.....Saltville, Va.
Emory and Henry College;
Pre-Nursing Course, Duke University.
- Edwards, Margaret Brennan.....York, S. C.
Winthrop College;
Pre-Nursing Course, Duke University.
- Elliott, Mary Virginia.....Lincolnton, N. C.
The Woman's College, Duke University;
Pre-Nursing Course, Duke University.
- Fairey, Margaret Elizabeth.....Johnston, S. C.
Winthrop College.
- Ford, Alice Evelyn.....Fairmont, W. Va.
Pre-Nursing Course, Duke University.
- Foy, Beulah Kathryne.....Atlanta, Ga.
Birmingham-Southern College.
- Frazier, Patricia Ann.....Tampa, Fla.
The Woman's College, Duke University;
Pre-Nursing Course, Duke University.
- Gaines, Mary Kathryn.....Winston-Salem, N. C.
Woman's College, University of North Carolina.

- Giles, Frances Ann.....Sparta, Ga.
Georgia State College for Women;
Pre-Nursing Course, Duke University.
- Gonzalez, Elpidia.....Edinburg, Texas
Edinburg Junior College;
Pre-Nursing Course, Duke University.
- Graveley, Mary Rosalie.....Orlando, Fla.
Florida State College for Women.
- Gregory, Ada Virginia.....Havana, Fla.
Florida State College for Women.
- Haley, Jean Astor.....Durham, N. C.
Pre-Nursing Course, Duke University.
- Hall, Dorothy Emily.....Wilmington, N. C.
Pre-Nursing Course, Duke University.
- Harris, Dorothy.....Laurel Hill, N. C.
Pre-Nursing Course, Duke University.
- Harry, Margaret Bloomfield.....Warm Springs, Ga.
Georgia State College for Women;
Pre-Nursing Course, Duke University.
- Hart, Mary Catherine.....Tallahassee, Fla.
Florida State College for Women.
- Hatcher, Audrey Virginia.....Roanoke, Va.
Madison College.
- Herring, Clyde Fennell.....Fayetteville, N. C.
Flora Macdonald College.
- Howell, Margaret Elaine.....Lillington, N. C.
Woman's College, University of North Carolina;
Pre-Nursing Course, Duke University.
- Hunter, Caroline Gibbes.....Columbia, S. C.
University of South Carolina;
Pre-Nursing Course, Duke University.
- James, Mary Jordan.....Southern Pines, N. C.
The Woman's College, Duke University;
Pre-Nursing Course, Duke University.
- Janssen, Billie Jane.....Winter Haven, Fla.
Pre-Nursing Course, Duke University.
- Kelly, Frances Bost.....Salisbury, N. C.
Woman's College, University of North Carolina.
- Knight, Doris Virginia.....Rock Hill, S. C.
Winthrop College.
- Kurz, Flora Mae.....Tallahassee, Fla.
Florida State College for Women.
- Kyle, Patricia.....Washington, D. C.
College of William and Mary.
- Leach, Mary Elizabeth.....Kinston, N. C.
Flora Macdonald College;
Pre-Nursing Course, Duke University.
- Long, Jeanne Anne.....Gettysburg, Pa.
Pre-Nursing Course, Duke University.
- McKinney, Doris Marie.....High Point, N. C.
Pre-Nursing Course, Duke University.
- Millard, Gipsie.....Blountville, Tenn.
Teacher's College, Johnson City, Tenn.;
Pre-Nursing Course, Duke University.
- Moore, Janice.....Haddonfield, N. J.
Pre-Nursing Course, Duke University.

- Moore, Mary Frances.....Kannapolis, N. C.
Limestone College;
Pre-Nursing Course, Duke University.
- Norris, Hannah Matilda.....Columbia, N. C.
Carolina Teachers College;
Pre-Nursing Course, Duke University.
- Palmer, Rachel Eleanor.....Greenville, S. C.
Woman's College of Furman University.
- Parmer, Minnie Florine.....Chipley, Fla.
Pre-Nursing Course, Duke University.
- Pegram Ruth Ola.....Winston-Salem, N. C.
Louisburg College;
Pre-Nursing Course, Duke University.
- Petrea, Margaret Lyerly.....Salisbury, N. C.
Lenoir-Rhyne College.
- Proctor, Sarah Lucile.....Tallahassee, Fla.
Florida State College for Women.
- Pugh, Frances Hope.....Franklinville, N. C.
Pre-Nursing Course, Duke University.
- Ray, Nancy Launa.....Rocky Mount, N. C.
Pre-Nursing Course, Duke University.
- Rearden, Helen Henrietta.....Arlington, Va.
Mary Washington College.
- Rhodes, Dorothy Elizabeth.....Saint Pauls, N. C.
Flora Macdonald College;
Pre-Nursing Course, Duke University.
- Rice, Dorothy Helen.....Durham, N. C.
Pre-Nursing Course, Duke University.
- Roberts, Eltha Garlyn.....Macon, Ga.
Andrew College;
Pre-Nursing Course, Duke University.
- Roy, Gloria Carmen.....Southampton, L. I., N. Y.
Averett College;
Mary Washington College.
- Rowlett, Rita Louise.....Bradenton, Fla.
Florida State College for Women;
University of Arkansas.
- Sanders, DeLane Cecielle.....Clover, S. C.
Limestone College;
Pre-Nursing Course, Duke University.
- Schumm, Cora Belle.....Greensboro, N. C.
Pre-Nursing Course, Duke University.
- Slick, Jane Lenore.....Osterburg, Pa.
Gettysburg College.
- Smith, Emily Josephine.....Statesville, N. C.
Kent State University;
Guilford College.
- Smith, Ruth Beatrice.....Laurinburg, N. C.
Pre-Nursing Course, Duke University.
- Smith, Shirley Mae.....Wilmington, N. C.
Louisburg College.
- Smoot, Julia Ann.....Dillon, S. C.
Pre-Nursing Course, Duke University.
- Swartz, Gene Carolyn.....Roanoke, Va.
Pre-Nursing Course, Duke University.

- Teiser, Uva Louise.....Henderson, N. C.
Woman's College, University of North Carolina.
- Thompson, Margaret White.....Bristol, Va.
*Virginia Intermont College;
Pre-Nursing Course, Duke University.*
- Timmons, Miriam.....Augusta, Ga.
*Georgia State College for Women;
Pre-Nursing Course, Duke University.*
- Trent, Loa Jean.....Winston-Salem, N. C.
*Hockaday Junior College;
Pre-Nursing Course, Duke University.*
- Wall, Rachel Louise.....Durham, N. C.
*Peace College;
Pre-Nursing Course, Duke University.*
- Walters, Helen Julia.....Mount Holly, N. J.
*University of Newark;
The Woman's College, Duke University;
Pre-Nursing Course, Duke University.*
- Weeks, Flora Mary.....Pahokee, Fla.
Pre-Nursing Course, Duke University.
- White, Wanda.....Durham, N. C.
The Woman's College, Duke University.
- Wiland, Elaine Margaret.....Lewistown, Pa.
The Woman's College, Duke University.
- Williams, Anna Beth.....Ruffin, S. C.
*Coker College;
Winthrop College.*
- Winters, Virginia Lewis.....Charlotte, N. C.
Pre-Nursing Course, Duke University.
- Young, Beverly Ballenger.....Orlando, Fla.
*Limestone College;
Pre-Nursing Course, Duke University.*

THE SCHOOL OF FORESTRY

REGULAR STUDENTS

- Goebel, Norbert Bernard.....Racine, Wis.
B.S., Colorado State College, 1940.
- Matte, Lorenzo.....Rimouski, Que., Canada
B.A., Université Laval, 1932;
Bachelor of Surveying, Université Laval, 1939;
Forestry Engineer, Université Laval, 1939;
M.F., Duke University, 1944.

SUMMARY

GOVERNMENT, ADMINISTRATION, AND INSTRUCTION

Governing Boards		49
Trustees of Duke University	35	
Trustees of Duke Endowment	14	
Officers of Administration		65
The University	5	
Trinity College, the Woman's College, the College of Engineering and the Schools	19	
Assistants in Administration	41	
Officers of Instruction		511*
Professors	113	
Associate Professors	66	
Assistant Professors	98	
Instructors	156	
Instructional Assistants	78**	
Staff of University Libraries		63
Total		688

STUDENTS

Trinity College and the College of Engineering		4,049
(On Navy V-12 program; 1,860 duplicates)		
March 1, 1945-June 23, 1945, Semester	968	
November 1, 1944-February 23, 1945, Semester	1,331	
July 1, 1944-October 24, 1944, Semester	1,750	
Civilian Men Enrolled on Woman's College Schedule		60
(23 duplicates)		
Woman's College		922
Seniors	202	
Juniors	200	
Sophomores	247	
Freshmen	247	
Special Students	26	
The Graduate School of Arts and Sciences		371
(144 of these in regular academic year)		
The School of Law		31
First Year	16	
Second Year	6	
Third Year	9	
The School of Medicine		376
First Year	75	
Second Year	72	
Junior Year	72	
Senior Year	77	
Graduates (Interns and Residents)	80	
The School of Nursing		260
Technicians		26
The School of Dietetics		12
The Divinity School		154
Seniors	54	
Middle Year	50	
Juniors	50	

* Not including visiting members of Summer Session Faculty.

** Not including Graduate Assistants, Fellows, and Scholars, some of whom meet classes.

The School of Forestry	2
The Summer Session	1,450
(255 duplicates in Summer Session; 154 enrolled in regular academic year.)	
Graduates, May 30 (3 weeks) term	41
Graduates, June 20 term	287
Graduates, August 1 term	104
Undergraduates, May 30 (3 weeks) term	97
Undergraduates, June 20 term	235
Undergraduates, August 1 term	91
Summer Quarter, Schools of Medicine and Nursing ...	581
Summer Quarter, School of Law	14
	<hr/>
Deduction for names appearing more than once	7,713
	<hr/>
Enrollment for 12 months' period	2,519
	<hr/>
Enrollment in academic year	5,194
(Less duplicates in V-12 program and civilian men students.)	
	<hr/>
	4,153

GIFTS AND BEQUESTS

Duke University derives its principal support from endowment funds and from miscellaneous gifts and grants. Permanently invested capital funds enable the University to offer to students academic and professional training at a fraction of its actual cost. The effectiveness of the University is determined to a large extent by its financial resources.

Gifts and bequests devoted to the improvement of the work of the University will be received and administered by the trustees in accordance with the desires of the donor.

Gifts. Any kind of property, real or personal, may be the subject of a gift and only such form as is required to pass title is necessary. If the gift consists of real property, the title will be passed by deed; if it consists of cash or unregistered bonds, the gift is consummated by delivery of the property; or if stocks, by delivery of properly endorsed stock certificates. Unless restricted, the use of gifts is at the discretion of the Board of Trustees. Usually the proceeds, conservatively invested, are added to the permanent endowment of the University. The donor may, however, restrict the use of any gift and designate definitely the objects for which it shall be used. In such cases, the transfer of property would be accomplished by a letter or other document describing in detail the objects for which the proceeds of the gift are to be used and when accepted by the University the terms or conditions set out therein become binding upon it.

Bequests. Bequests may be made to the University by an appropriate clause inserted in a will or by codicil to a will already drawn. The following forms will serve as appropriate clauses for wills or codicils:

General

I give (devise; if real property) and bequeath to Duke University, a corporation existing under the laws of the State of North Carolina and located in the City and County of Durham, State of North Carolina, and its successors forever the sum of.....dollars (or otherwise describe the gift) for the general purposes and uses of the University at the discretion of the Board of Trustees.

Specific

I give (devise; if real property) and bequeath to Duke University, a corporation existing under the laws of the State of North Carolina and located in the City and County of Durham, State of North Carolina, or its successors forever, the sum of.....dollars (or otherwise describe gift) and direct that the income therefrom shall be used for the following purposes, viz. (here describe in detail the use desired).

Codicil

Having heretofore made my last Will and Testament dated....., and being of sound mind, I hereby make, publish, and declare the following codicil thereto; (here insert clause in same form as if it had been included in body of Will). Except as hereinbefore changed, I hereby ratify, confirm and republish my said last Will and Testament.

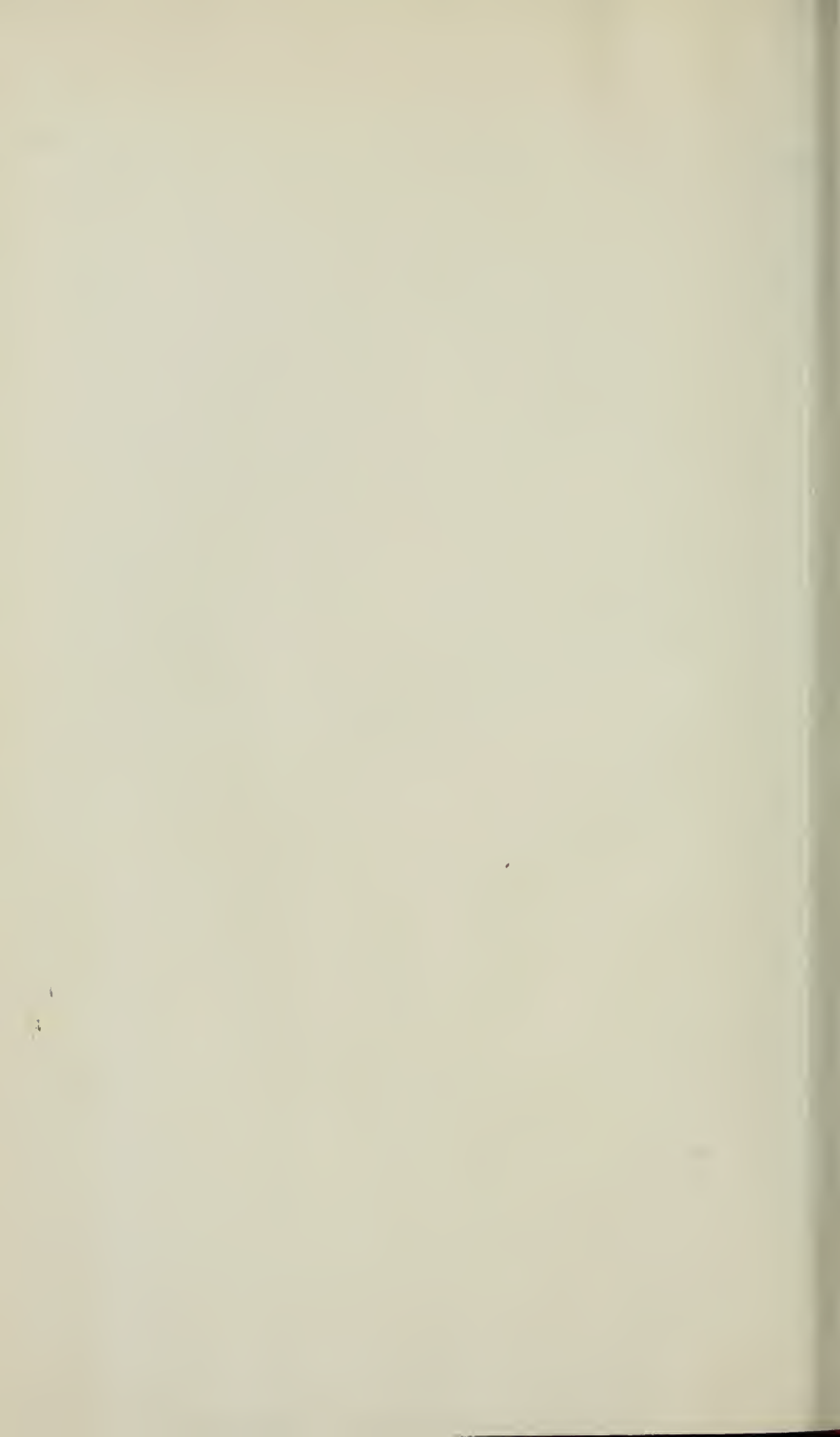
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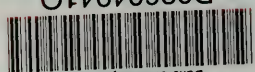


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